ORDER NO. MD9608057C2

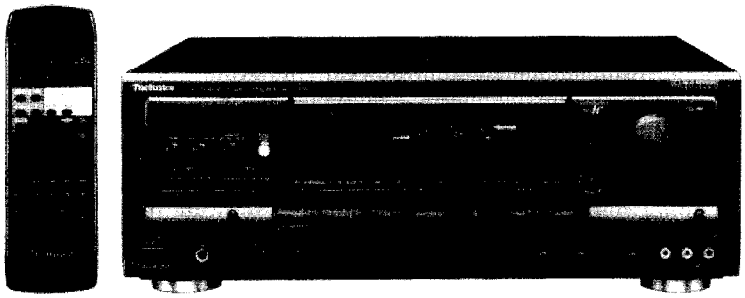
Service Manual

AV Control Stereo Receiver

DOLBY SURROUND PRO • LOGIC *

Receiver

SA-EX700



Colour

(K) . . . . . Black Type

Area

Suffix for Model No.	Area	Colour
(E)	Continental Europe	(K)
(EB)	Great Britain	
(EG)	Germany and Italy	

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■ Specifications

■ FM Tuner Section

Frequency range	87.50 – 108.00 MHz
Sensitivity	
S/N 30 dB	1.5 µV/75 Ω
S/N 26 dB	1.3 µV/75 Ω
S/N 20 dB	1.2 µV/75 Ω
IHF usable sensitivity	1.5 µV/75 Ω (IHF '58)
IHF 46 dB stereo quieting sensitivity	22 µV/75 Ω
Total harmonic distortion	
MONO	0.2%
STEREO	0.3%
S/N	
MONO	60 dB (75 dB, IHF)
STEREO	58 dB (71 dB, IHF)
Frequency response	20 Hz – 15 kHz (+1 dB, –2 dB)
Alternate channel selectivity	
±400 kHz	65 dB
Capture ratio	1 dB
Image rejection at 98 MHz	40 dB
IF rejection at 98 MHz	70 dB
Spurious response rejection at 98 MHz	70 dB
AM suppression	50 dB
Stereo separation	
1 kHz	40 dB
Carrier leak	
19 kHz	–30 dB (–35 dB, IHF)
38 kHz	–50 dB (–55 dB, IHF)
Channel balance (250 Hz — 6.3 kHz)	±1.5 dB
Limitting point	1.2 µV
Bandwidth	
IF amplifier	180 kHz
FM demodulator	1000 kHz
Antenna terminal(s)	75 Ω (unbalanced)

■ Video Section

Output voltage at 1 V input (unbalanced)	1 ±0.1 Vp-p
Maximum input voltage	1.5 Vp-p
Input/output impedance	75 Ω (unbalanced)

■ AM Tuner Section

Frequency range	
MW	522 – 1611 kHz (9 kHz steps)
	530 – 1620 kHz (10 kHz steps)
LW	144 – 288 kHz
Sensitivity	
MW	20 µV, 330 µV/m
LW	45 µV
Selectivity	
MW (at 999 kHz)	55 dB
LW (at 252 kHz)	55 dB
Image rejection	
MW (at 999 kHz)	40 dB
LW (at 252 kHz)	40 dB
IF rejection	
MW (at 999 kHz)	55 dB
LW (at 252 kHz)	55 dB

■ Amplifier Section

Power output (at 240 V)	
DIN 1 kHz (T.H.D. 1%)	2 X 100 W (4 Ω)
20 Hz – 20 kHz continuous power output both channels driven	2 X 65 W (8 Ω)
Total harmonic distortion	
rated power at 20 Hz – 20 kHz	0.05% (8 Ω)
half power at 1 kHz	0.03% (8 Ω)
Power output at the Dolby Pro Logic operation	
DIN 1 kHz (T.H.D. 1%)	
Front	2 X 60 W (8 Ω)
Center	60 W (8 Ω)
Surround	60 W (8 Ω)
Subwoofer	60 W (4 Ω)
Intermodulation distortion	
rated power at 60 Hz: 7 kHz=4:1; SMPTE	0.5 W (8 Ω)
Power bandwidth	
both channels driven, –3 dB	10 Hz – 40 kHz (8 Ω)
Damping factor	30 (8 Ω)

Technics®

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Load impedance	
Front	
A or B	4 – 16 Ω
A and B	8 – 16 Ω
Center	8 – 16 Ω
Surround	4 – 16 Ω
Subwoofer	4 – 16 Ω
Frequency response	
PHONO	RIAA standard curve (30 Hz – 15 kHz) ±0.8 dB
CD, TAPE, VDP, TV, VCR 1, VCR 2	10 Hz – 40 kHz, ±3 dB
Input sensitivity and impedance	
PHONO	3 mV/47 kΩ
CD, TAPE, VDP, TV, VCR 1, VCR 2	200 mV/22 kΩ
S/N at rated power (8 Ω)	
PHONO	70 dB (IHF, A: 80 dB)
CD, TAPE, VDP, TV, VCR 1, VCR 2	75 dB (IHF, A: 85 dB)
Tone controls	
BASS	50 Hz, +10 to –10 dB
TREBLE	20 kHz, +10 to –10 dB
Loudness control (volume at –30 dB)	50 Hz, +9 dB
Output voltage	
VCR 1 OUT, TAPE REC (OUT)	200 mV
Channel balance (250 Hz – 6.3 kHz)	±1 dB
Channel separation	55 dB
Headphones output level and impedance	430 mV/330 Ω
Subwoofer frequency response	7 Hz – 100 Hz

■ General

Power supply	AC 50 Hz, 230 V (EG) AC 50 Hz, 230 – 240 V (E, EB)
Power consumption	250 W
Dimensions (W x H x D)	430 x 158 x 358 mm
Weight	10.3 kg

Notes :

1. Specifications are subject to change without notice. Weight and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

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■ Before Repair and Adjustment

Disconnect AC power, discharge 4 Power Supply Capacitors C703, C704, C705 and C706 through a 10Ω , 5W resistor to ground. DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices. After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

Current consumption at AC 230 V, 50 Hz in NO SIGNAL mode should be 120 ~ 350 mA.
Current consumption at AC 240 V, 50 Hz in NO SIGNAL mode should be 130 ~ 380 mA.

■ Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.
If this occurs, follow the procedure outlines below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

Note:
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

■ Caution for AC Mains Lead

[For [EB] area.]
For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION !
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OFF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted, please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

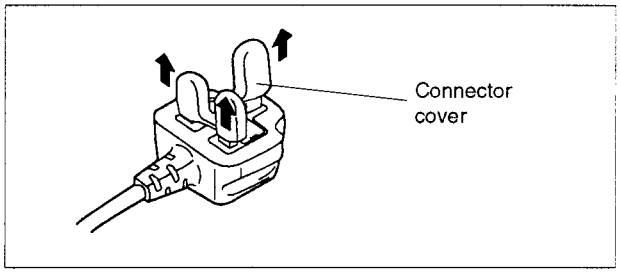
IMPORTANT
The wires in this lead are coloured in accordance with the following code:
Blue: Neutral
Brown: Live
As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

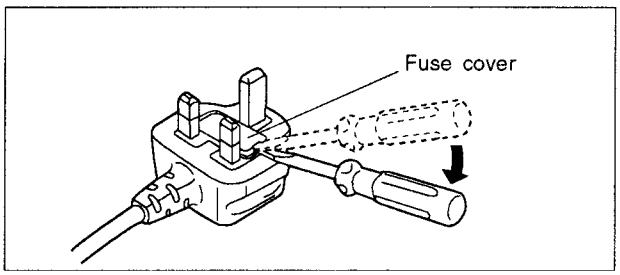
The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

Under no circumstances should either or these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth symbol ⏚ .

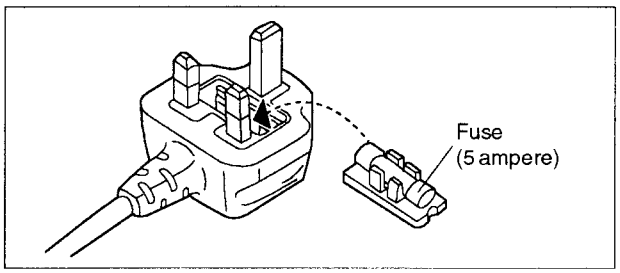
Before use
Remove the connector cover as follows.



How to replace the fuse
1. Remove the fuse cover with a screwdriver.



2. Replace the fuse and attach the fuse cover.



■ Operation Checks and Main Component Replacement Procedures

"ATTENTION SERVICER" Some chassis components may have sharp edges. Be careful when disassembling and servicing.

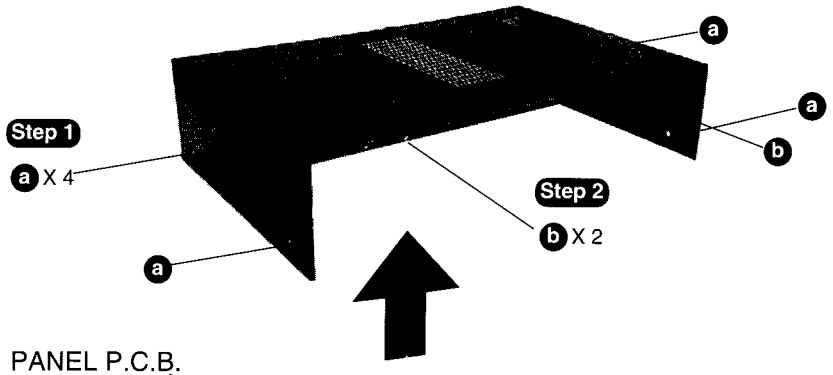
1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.**
3. **Select items from the following index when checks or replacement are required.**

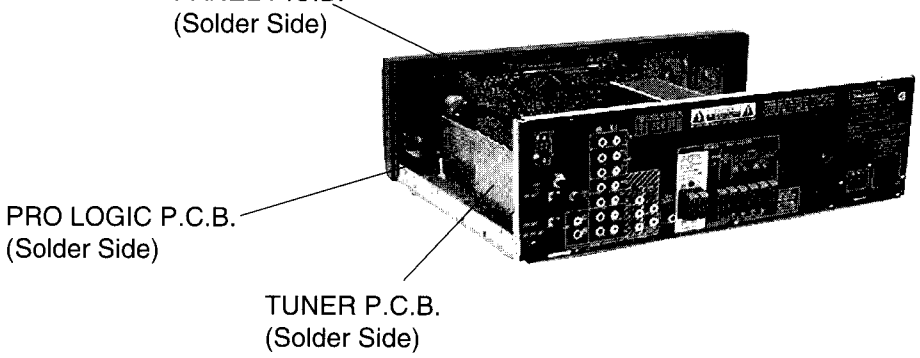
• Contents

page
• **Checking Procedure For Each Major P.C.B.** ..... 4 ~ 6
• **Main Component Replacement Procedures** ..... 6 ~ 8

■ Checking Procedure For Each Major P.C.B.

1. Checking of the Panel P.C.B., Pro Logic P.C.B. and Tuner P.C.B.





a

[SNE2129-1] (Black)

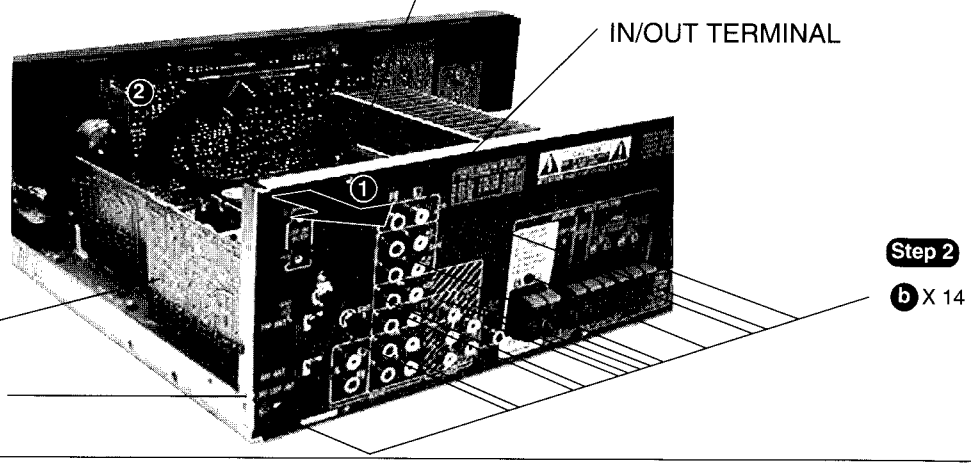
b

[XTBS3+8JFZ1] (Black)

2. Checking of the IN/OUT TERMINAL P.C.B.

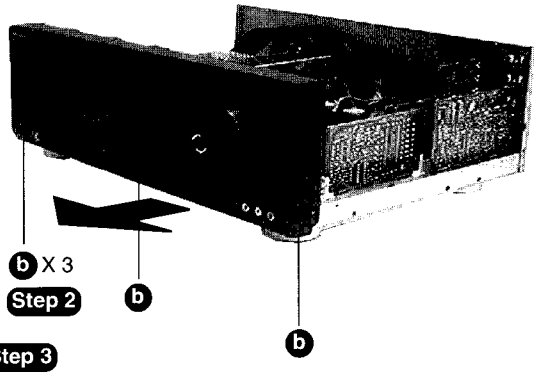
Step 1
Remove the top cabinet.

Step 3
Release the catch, pull the rear panel in the direction of arrow ❶ and simultaniously remove the tuner P.C.B. in the direction of arrow ❷ .



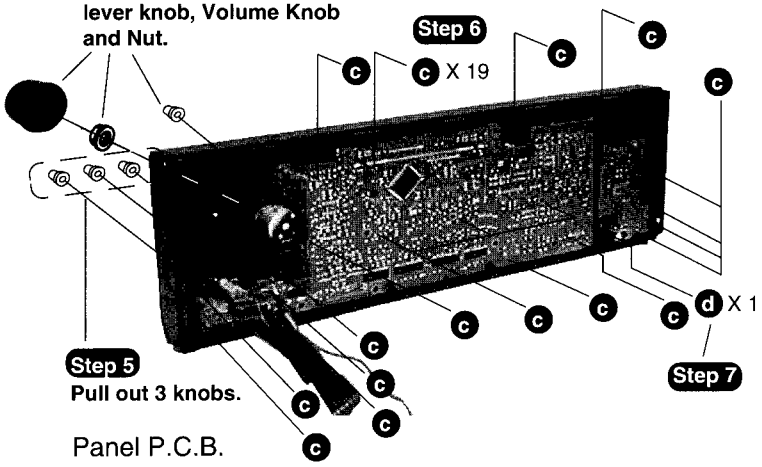
To Remove Front Panel, Panel P.C.B., Power Switch P.C.B. and Headphone Jack P.C.B.

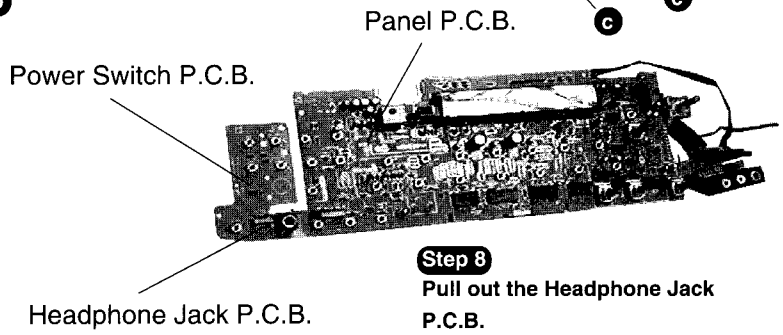
Step 1
Remove the top cabinet.



Step 3
Remove the front panel in the direction of arrow.

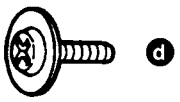
Step 4
Remove the Sub-Woofer lever knob, Volume Knob and Nut.





Step 8
Pull out the Headphone Jack P.C.B.

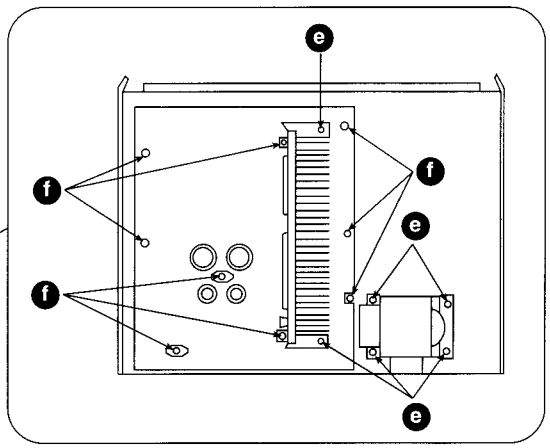
c
[XTBS26+10J]


d
[RHD26016]

3. Checking of the MAIN P.C.B.

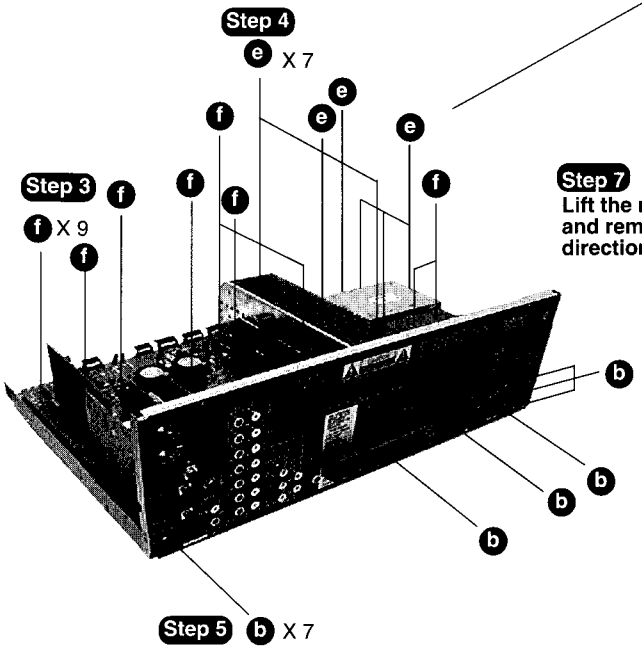
Step 1
Remove the top cabinet.

Step 2
Remove the front panel.

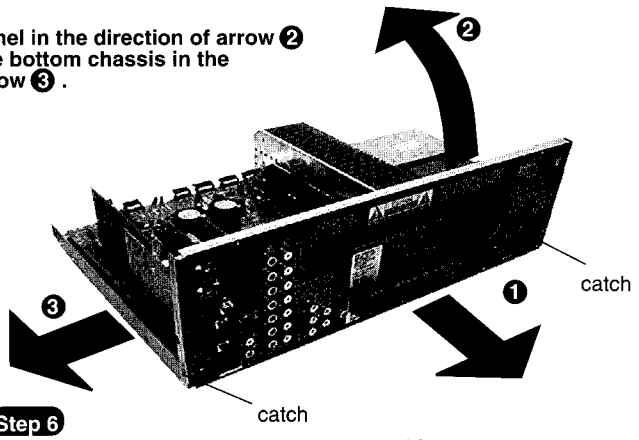


Step 4
e X 7

Step 3
f X 9

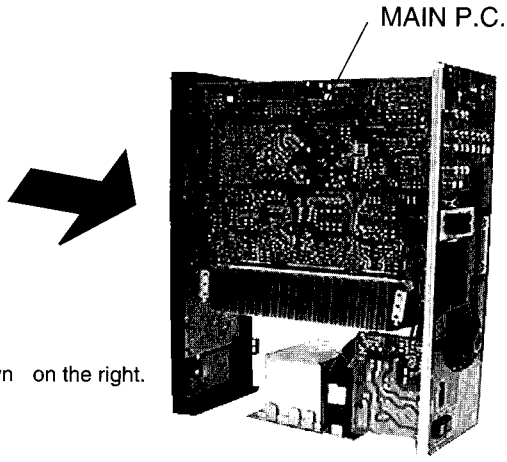


Step 7
Lift the rear panel in the direction of arrow ❷ and remove the bottom chassis in the direction of arrow ❸.



Step 6
Release 2 catches and pull the rear panel in the direction of arrow ❶ for about 10mm.
(Note : All P.C.B. and a transformer are attach to the rear panel)

Step 8
Connect the front panel to the main P.C.B. as shown.



• Check the Main P.C.B. as shown on the right.

[XTB3+8FFZ] (Black)

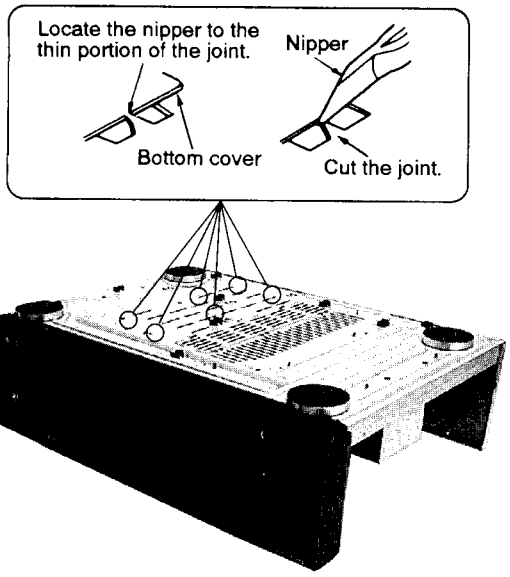
[XTB3+20JFZ] (Black)

■ Main Component Replacement Procedures

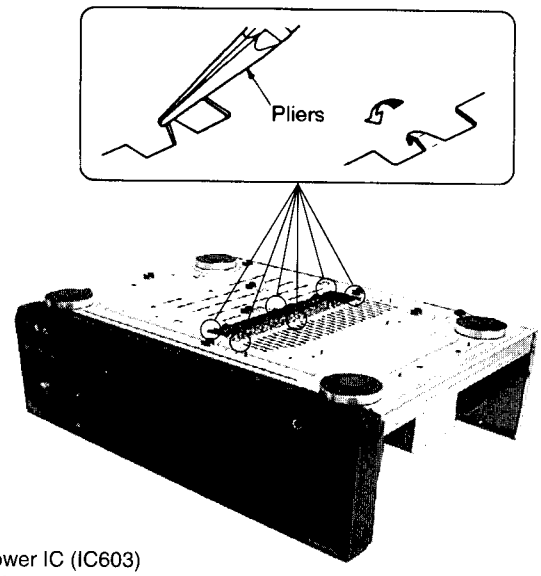
1. Replacement of the Power IC and Regulator Transistor

Step 1
Remove the top cabinet.

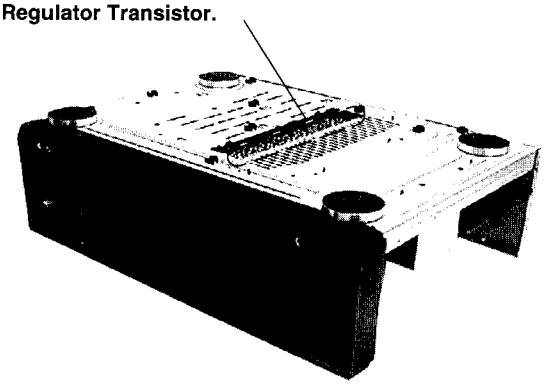
Step 2 **Cut the joints as shown below. (6 joints)**

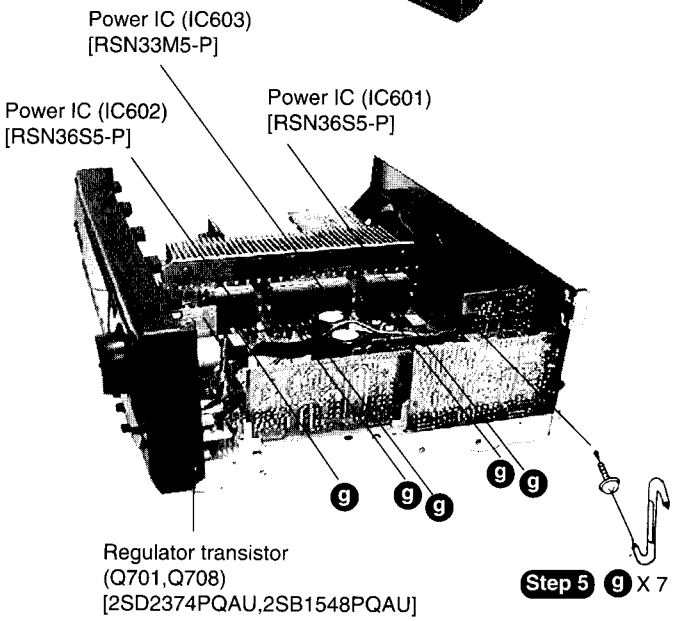


Step 3 **Fold the joints. (6 joints)**



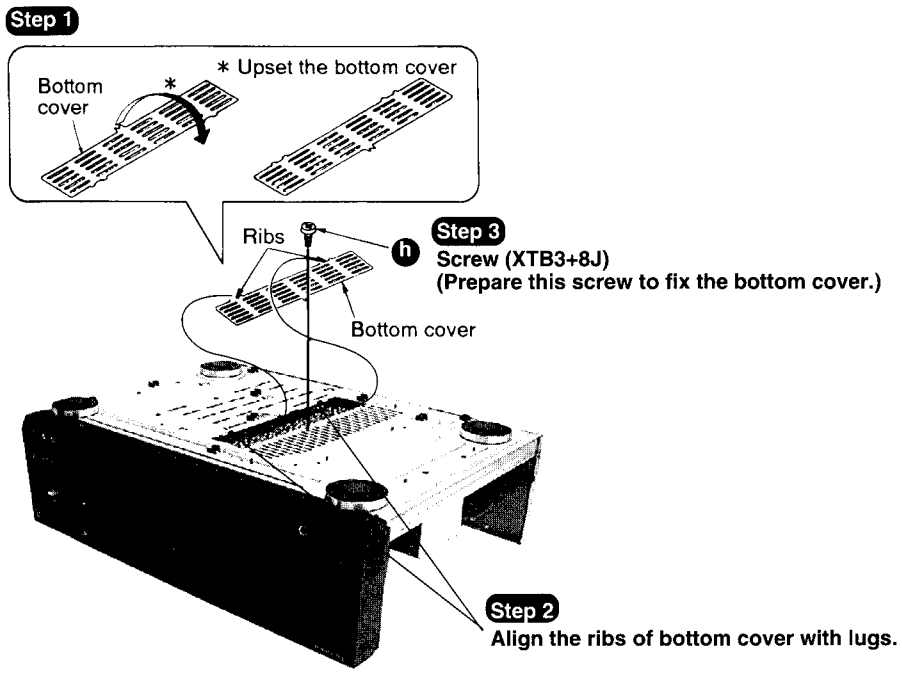
Step 4
Desolder the terminals of Power IC and Regulator Transistor.





Step 5 g X 7

Installation of the bottom cover after replacement



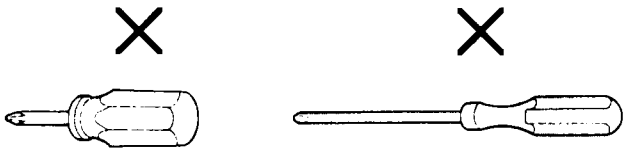
[XTW3+15T]

[XTB3+8J] (Black)

CAUTION

1. After replacing the power IC or regulator transistor, apply a sufficient quantity of compound grease (RFKX0002/SZZ0L15) between the heat sink and the power IC or regulator transistor (Radiation of power IC).
2. Tighten enough the screws (g) after replacing the power IC and regulator transistor. Otherwise, the heat radiation works little.
3. When installing or removing the power IC or transistor holder, be sure to use an offset screwdriver.

- A long straight screwdriver cannot be used for removing or mounting the screws since its long grip interferes with the neighbouring P.C.B. (See Fig.1)
- A short straight screwdriver may be used for removal, but cannot be used for mounting because the limited space in the unit will not allow sufficient tightening torque.(See Fig.2)



A short straight screwdriver

A short straight screwdriver

Fig.2

Fig.1

- Insufficient tightening will cause poor heat dissipation from the power IC and regulator transistor and,in the worst case, may lead to their thermal breakdown.

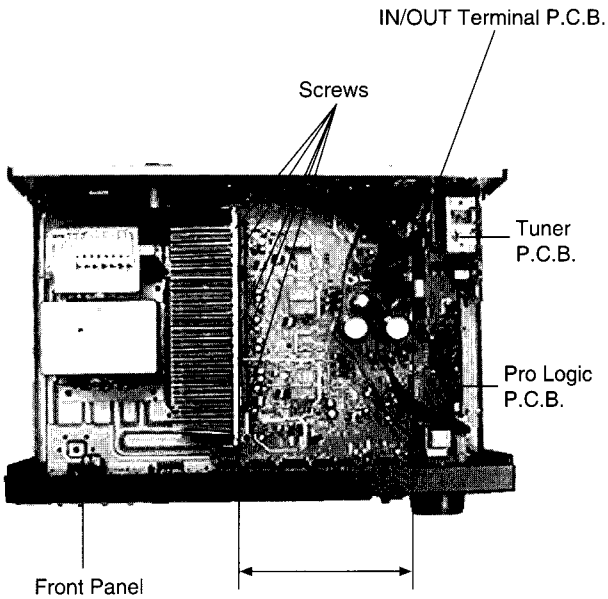
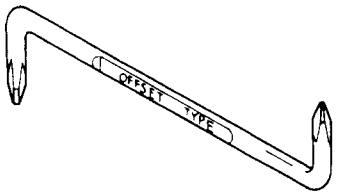


Fig.1

——OFFSET SCREWDRIVER——

•The PROTO offset screwdriver No.34-$^{1}/_{4}$ is recommended for use in the application above.



No.	⊕	⊢ L ⊣
34¼	1 & 2	4¾"

•The address of PROTO International Sales is as follows.

International Sales

International Sales Office
Stanley-Proto Industrial Tools
14117 Industrial Park Blvd.
Covington, GA 30209 U.S.A.
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Phone: 66-2-316-8655

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RG 12 1A2
England
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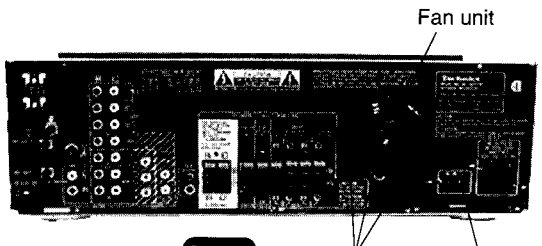
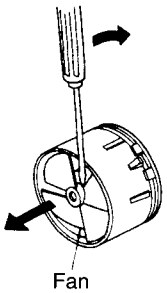
Phone: 44-344-51813

2. Replacement of the fan motor

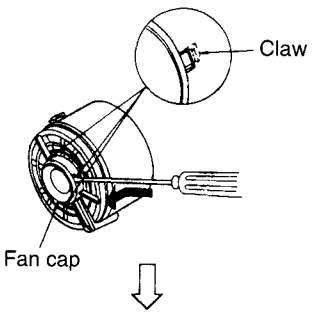


Step 1
Release the 3 claws.

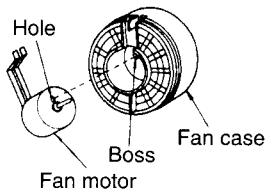
Step 2
Put a screwdriver at the root of the fan and remove it.



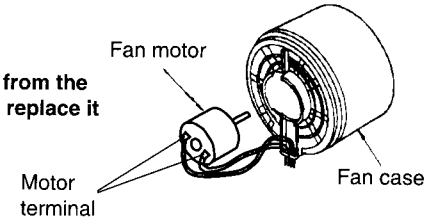
Step 3
Remove the fan cap.



NOTE
When replacing the fan motor, align the boss of the fan case with the hole of the fan motor.



Step 4
Desolder the wires from the motor terminal and replace it with a new one.



■ Fan Motor Troubleshooting

The Model SA-EX700 employ fan motor error sensing electronics.
If the cooling fan is not operating and "OVER LOAD" is displayed on the FL display, check the fan motor and its driving circuit.

"OVER LOAD" is displayed on the FL display.

Is the air cooling path blocked or the fan motorjammed by any external obstacle?

YES → Remove the obstacle.

NO

Remove the fan from the unit.

Is the fan motor's DC resistance 20 ~ 30 Ω ?

NO → Fan motor failure
Short circuit : DC resistance below 5 Ω
Open circuit : DC resistance over 1 kΩ

YES

Reinstall the fan on the unit.

Are the terminal voltage of Q772 and Q773 normal in both and inactive states of the fan motor? (see table1.)

NO → Check the integrity of Q771, Q772, Q773 and the fan motor driving circuit. (see fig.1)

YES

(Voltage table)

		fan. off	fan. on
Q771	E	0V	0V
	C	–0.7V	0V
	B	0V	–0.7V
Q772	E	0V	0V
	C	0V	–9.1V
	B	–0.7V	0V
Q773	E	0V	–8.0V
	C	–14.0V	–14.0V
	B	0V	–8.5V

(Table 1)

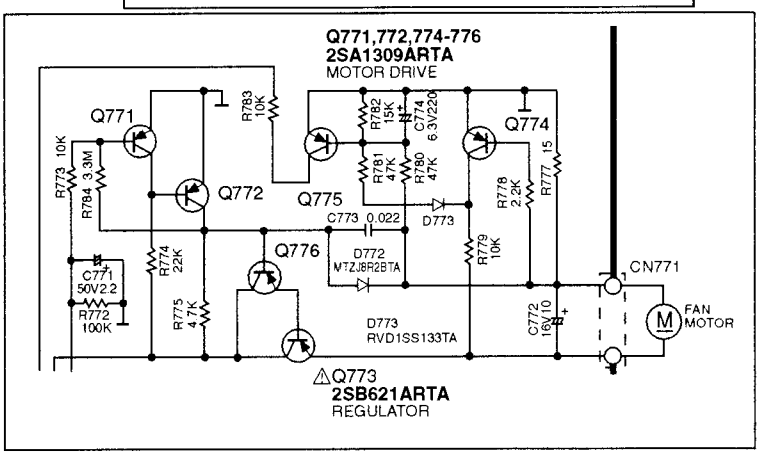


fig.1

Is an audio signal present at pins ① and ④ of IC601 or pins ① and ④ of IC602 or pins ⑦ of IC603

NO → The power IC (IC601, IC602 or IC603) is defective.

YES

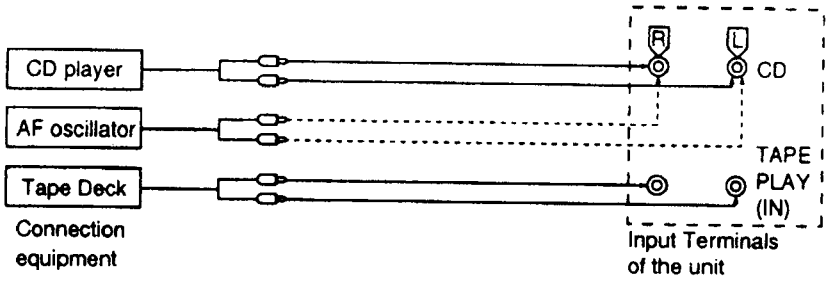
The fan motor, power ICs and fan driver are functioning normally.

■ Troubleshooting

This unit has test points on each circuit board block for use in troubleshooting.

CONNECTION

Connect either a CD player, tape deck or AF oscillator to the input terminals of the unit.



REQUIRED ITEMS

1. Testing with a CD player ——— Test disc (SZZP1054C / first program, 1kHz, 0dB)
2. Testing with a tape deck ——— Test tape (QZZCLA / 315Hz, 0dB)
3. Testing with a AF oscillator ——— Set the output at 500Hz, 200mV
4. Oscilloscope (min. 10MHz) ---------- To measure the output waveform at the test points.

TEST PROCEDURE FOR AMPLIFIER CIRCUIT

When the CD player AF oscillator is connected:

Power on the unit.
Set the input selector button of the unit to the "CD" position.
Set the Speaker A button of the unit to "ON" position.

Run the CD player (SZZP1054C / first program 1kHz, 0dB) or Run the AF oscillator (Oscillator output at 500Hz, 200mV)

When the tape deck is connected:

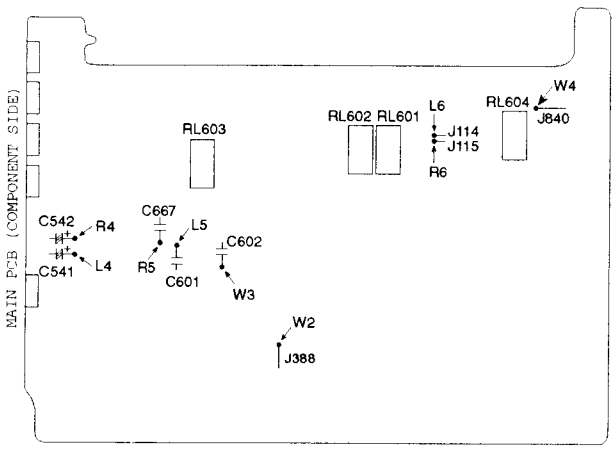
Power on the unit.
Set the input selector button of the unit to the "TAPE MONITOR" position.
Set the Speaker A button of the unit to "ON" position.

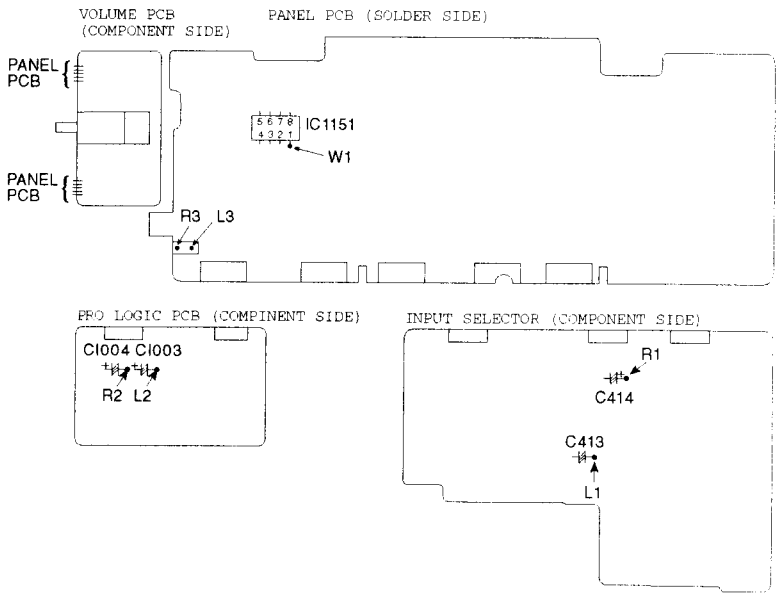
Run the tape deck (QZZCLA 315Hz, 0dB)

Using the Oscilloscope, check the output waveforms at the test points on the circuit boards of the unit in the following order:
(L1,R1)=(L2,R2)=(L3,R3)=(L4,R4)=(L5,R5)=(L6,R6).
Refer to page 11.

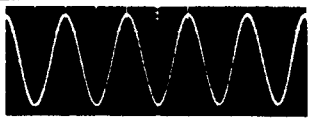
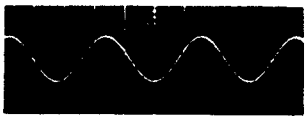
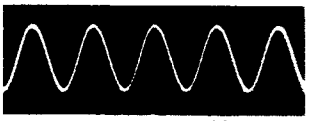
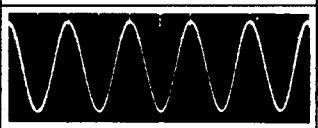
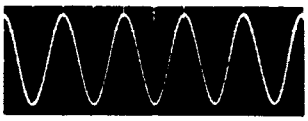
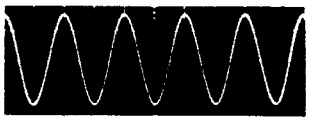
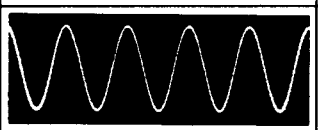
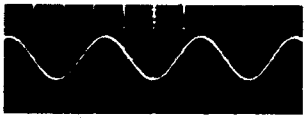
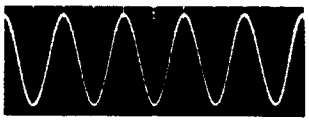
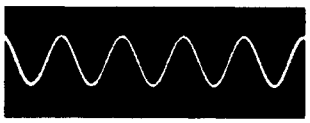
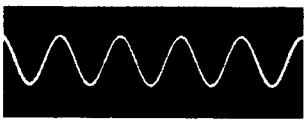
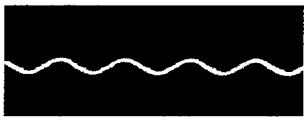
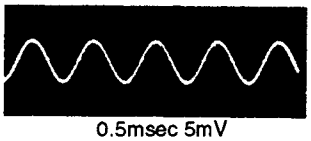
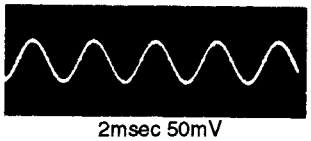
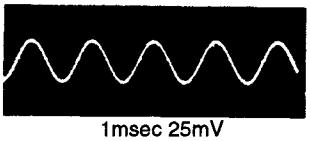
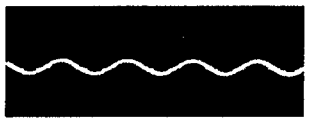
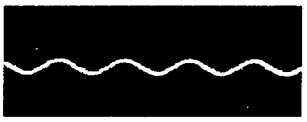
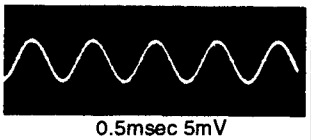
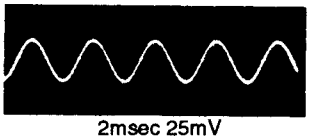
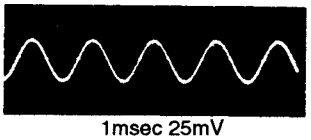
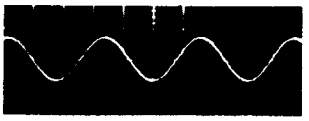
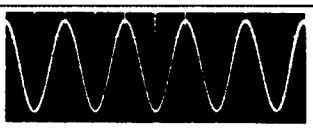
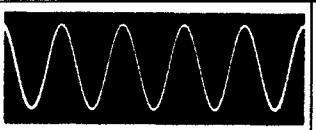
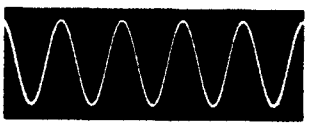
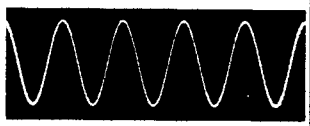
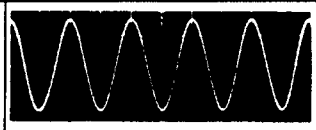
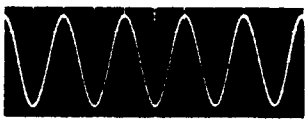
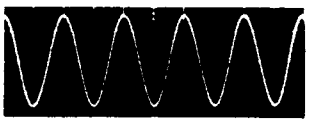
Note: Connect the '+' probe of the oscilloscope to each test point and the '–' probe to chassis ground.

TEST POINTS POSITIONS OF AMPLIFIER CIRCUIT





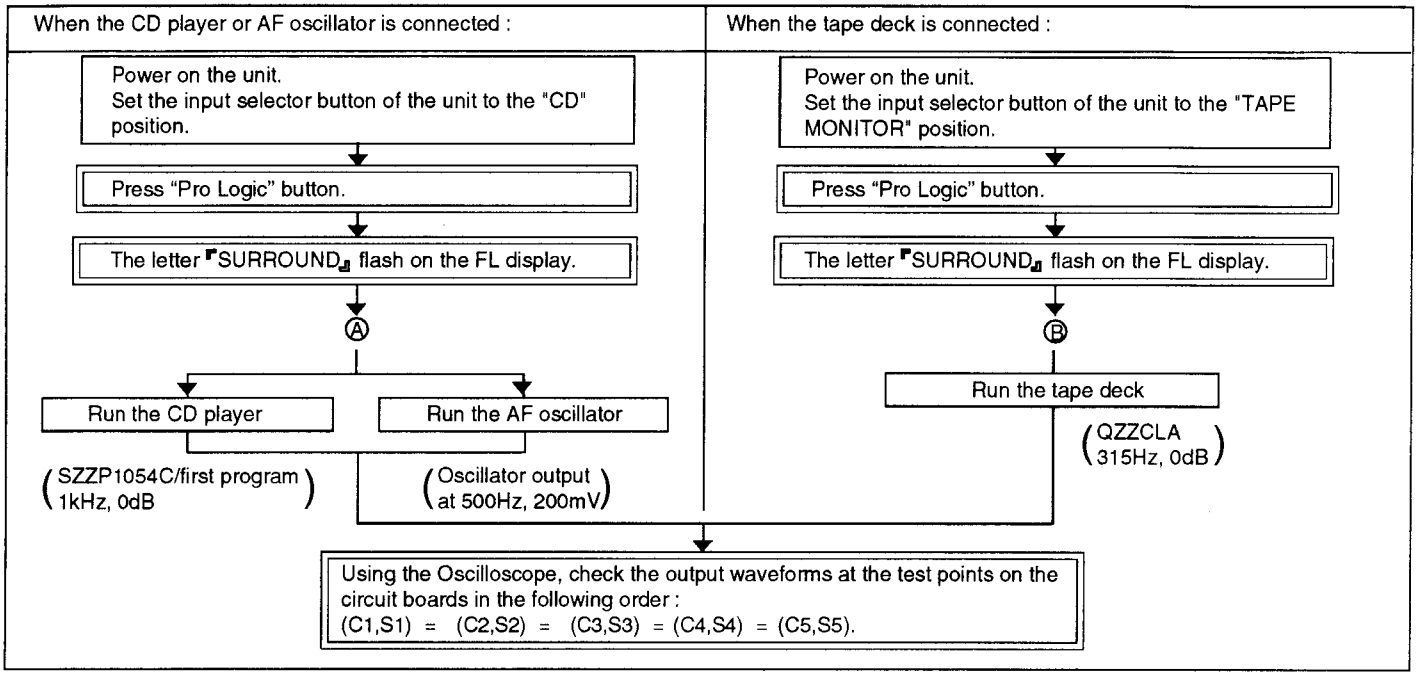
NORMAL WAVEFORMS OF AMPLIFIER CIRCUIT AND LIKELY FAULTY BLOCKS

TP	CD player	Tape deck	AF oscillator	Likely faulty block if the normal waveform shown at the left is not present.
L1/R1	 0.5msec 0.2V	 1msec 50mV	 1msec 20mV	Input selector block IC401 & area
W1	 0.5msec 0.1V	 1msec 20mV	 1msec 20mV	Sub-Woofer amplifier & area
L2/R2	 0.5msec 0.2V	 1msec 50mV	 1msec 20mV	Dolby pro logic blockIC1001 and IC1002 & area
W2	 1msec 25V	 1msec 25mV	 1msec 25mV	Sub-Woofer lever block VR1150 & area
L3/R3	 0.5msec 5mV	 2msec 50mV	 1msec 25mV	Master volume block VR501 & area
W3	 1msec 25mV	 2msec 25mV	1msec 25mV	Power limiter block Q575, Q576 & area
L4/R4	 0.5msec 5mV	 2msec 25mV	 1msec 25mV	Tone control block IC511 & area
W4	0.5msec 50mV	 1msec 5mV	 1msec 25mV	Main amplifier block IC601 & area
L5/R5	 0.5msec 10mV	 1msec 50mV	 1msec 25mV	Power limiter block Q581 toQ584 & area
L6/R6	 0.5msec 0.2mV	 2msec 50mV	 1msec 50V	Main amplifier block IC601, IC603 & area

Measurement conditions. Sub-Woofer Control (VR1150) Volume control (VR501), Treble control (VR512) and Bass control (VR511) positions : ⏲
*Volume control position (VR501) for these test : ⏲

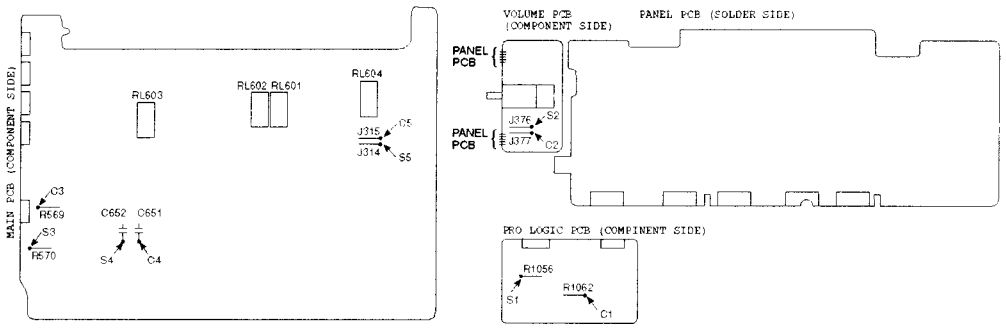
CHECKING PROCEDURE FOR SURROUND CIRCUIT

Outputting surround signal normally requires that opposite phase signals be applied to both the left and right channels. However, this unit incorporates a service mode, allowing the surround circuit to be tested using in-phase signals.

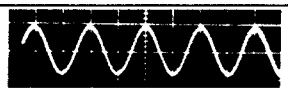
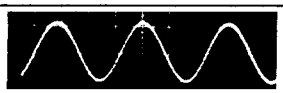
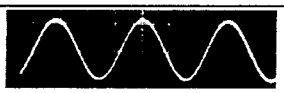
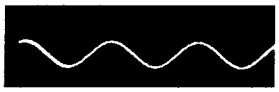
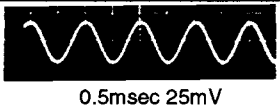
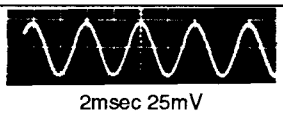
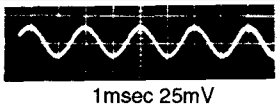

When the CD player or AF oscillator is connected :
When the tape deck is connected :
Power on the unit.
Set the input selector button of the unit to the "CD" position.
Power on the unit.
Set the input selector button of the unit to the "TAPE MONITOR" position.
Press "Pro Logic" button.
Press "Pro Logic" button.
The letter "SURROUND" flash on the FL display.
The letter "SURROUND" flash on the FL display.
Ⓐ
Ⓑ
Run the CD player
Run the AF oscillator
Run the tape deck
(SZZP1054C/first program 1kHz, 0dB)
(Oscillator output at 500Hz, 200mV)
(QZZCLA 315Hz, 0dB)
Using the Oscilloscope, check the output waveforms at the test points on the circuit boards in the following order :
(C1,S1) = (C2,S2) = (C3,S3) = (C4,S4) = (C5,S5).

• To exit the service mode, power off the unit.

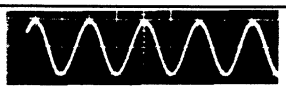
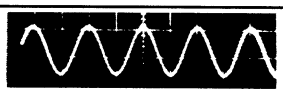
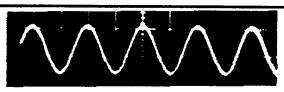
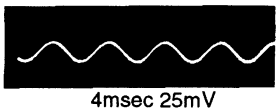
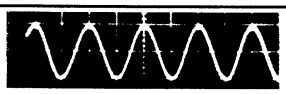
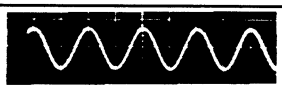
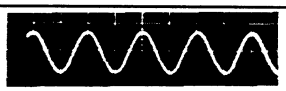
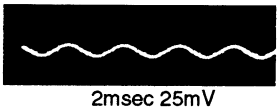
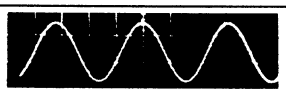
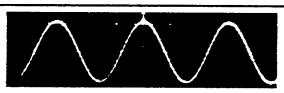
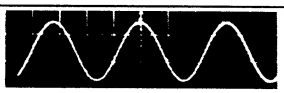
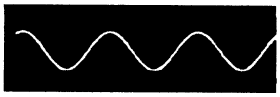
TEST POINTS POSITIONS OF SOURROUND CIRCUIT



NORMAL WAVEFORMS OF AMPLIFIER CIRCUIT AND LIKELY FAULTY BLOCKS

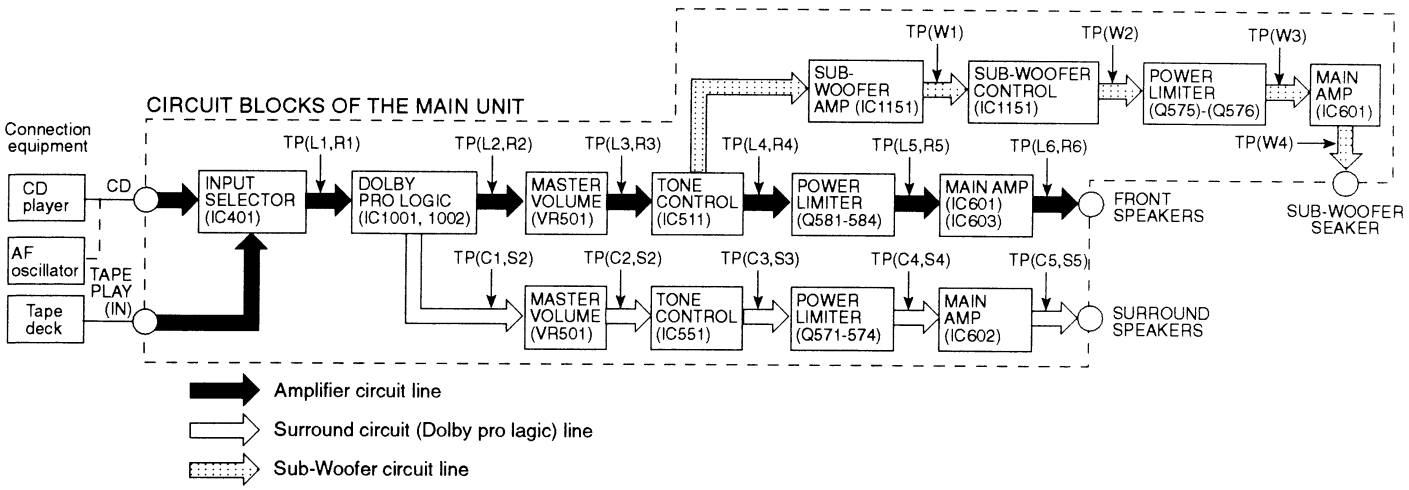
TP	CD player	Tape deck	AF oscillator	Likely faulty block if the normal waveform shown at the left is not present.
C1	 0.5msec 50mV	 1msec 10mV	 1msec 10mV	Dolby pro logic block IC1001 and IC1002 & area
S1	1msec 25mV	 2msec 25mV	1msec 25mV	
C2	 0.5msec 25mV	 2msec 25mV	 1msec 25mV	Master volume block VR501 & area
S2	2msec 25mV	5msec 25mV	1msec 25mV	

NORMAL WAVEFORMS OF AMPLIFIER CIRCUIT AND LIKELY FAULTY BLOCKS

TP	CD player	Tape deck	AF oscillator	Likely faulty block if the normal waveform shown at the left is not present.
C3	 0.5msec 10mV	 2msec 50V	 1msec 50V	Power limiter block Q571 to Q574 & area
S3	2msec 25mV	5msec 25mV	 4msec 25mV	
C4	 0.5msec 5V	 2msec 25V	 1msec 10V	Power limiter block Q571 to Q574 & area
S4	 2msec 25mV	5msec 25mV	5msec 25mV	
C5	 0.5msec 0.2mV	 2msec 20mV	 1msec 20mV	Main amplifier block IC602 & area
S5	1msec 25mV	2msec 25mV	 2msec 25mV	

Measurement conditions. Sub-Woofer Control (VR1150), Volume control (VR501), Tremble control (VR512) and Bass control (VR511) positions : ◔
*Volume control position (VR501) for these test : ◕

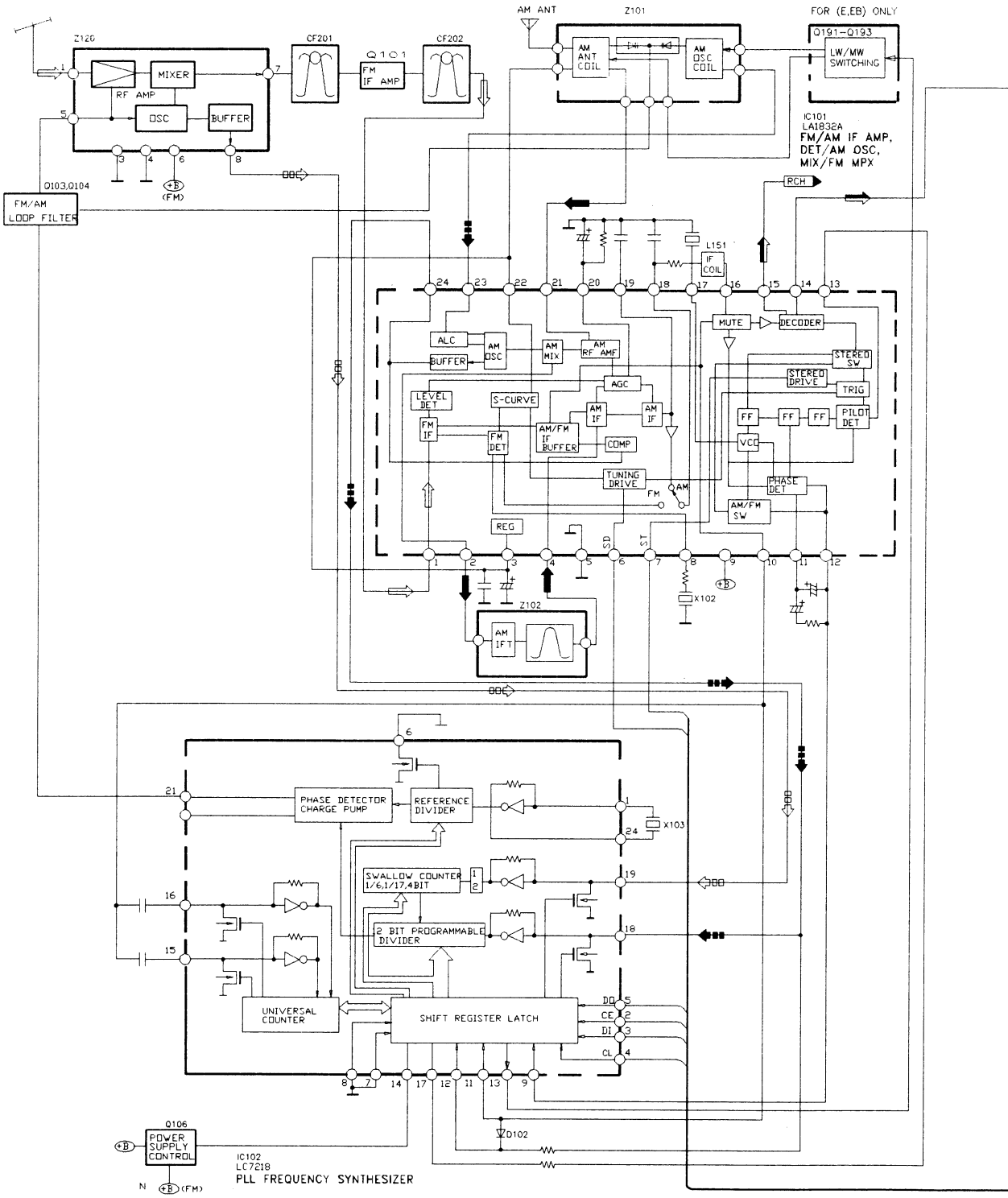
CIRCUIT BLOCKS

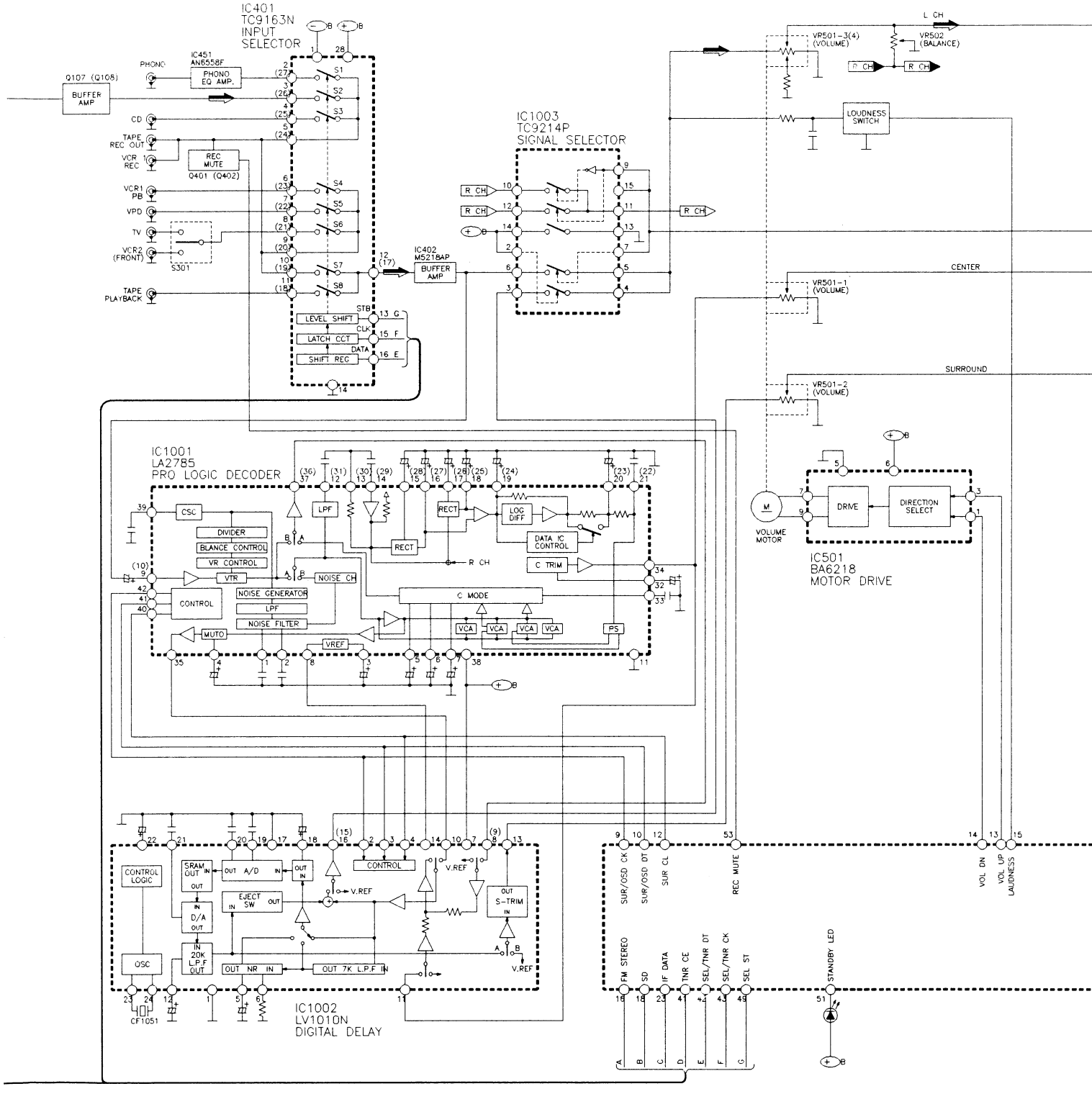


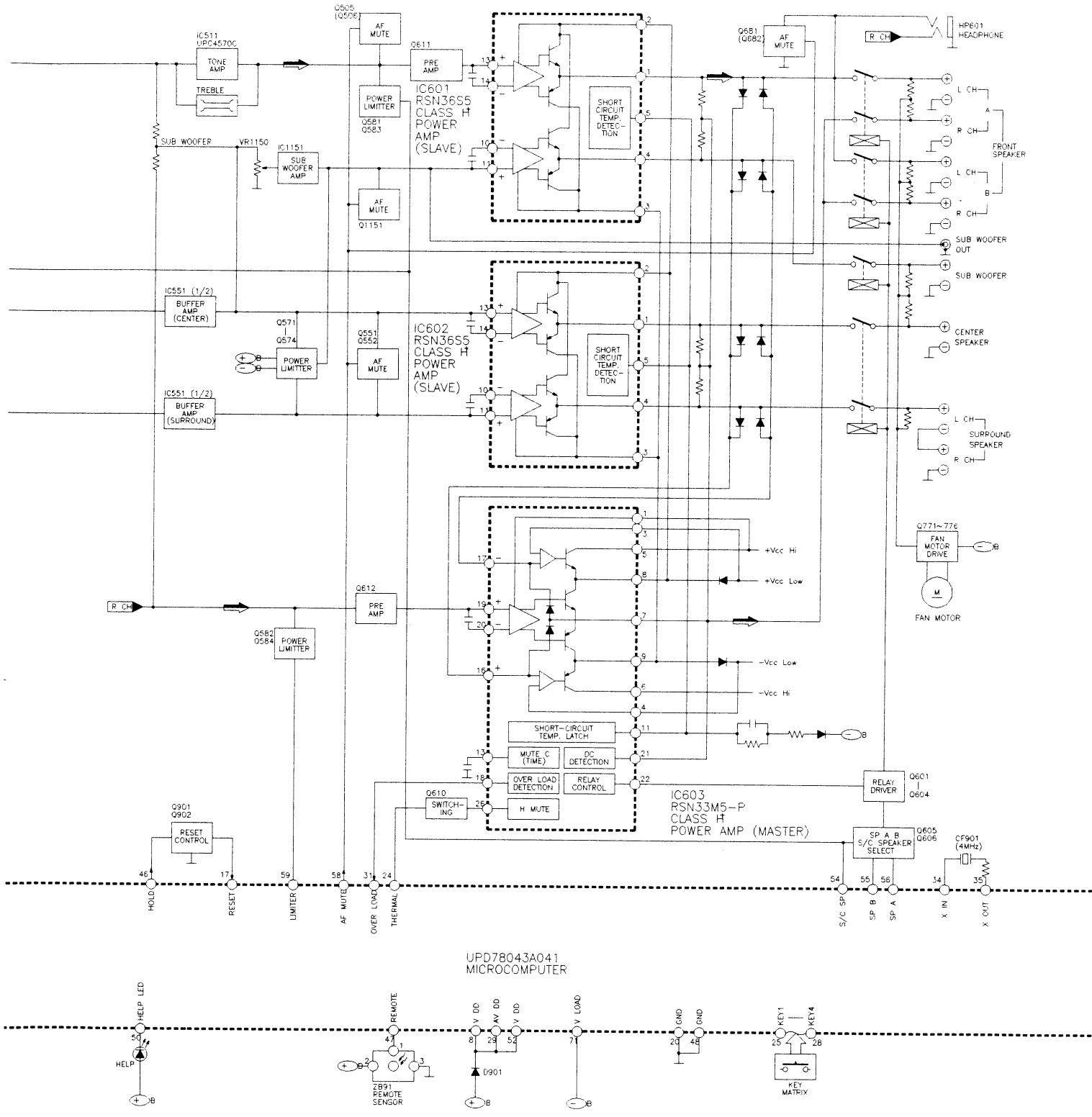
■ OVERLOAD DETECTION FUNCTION

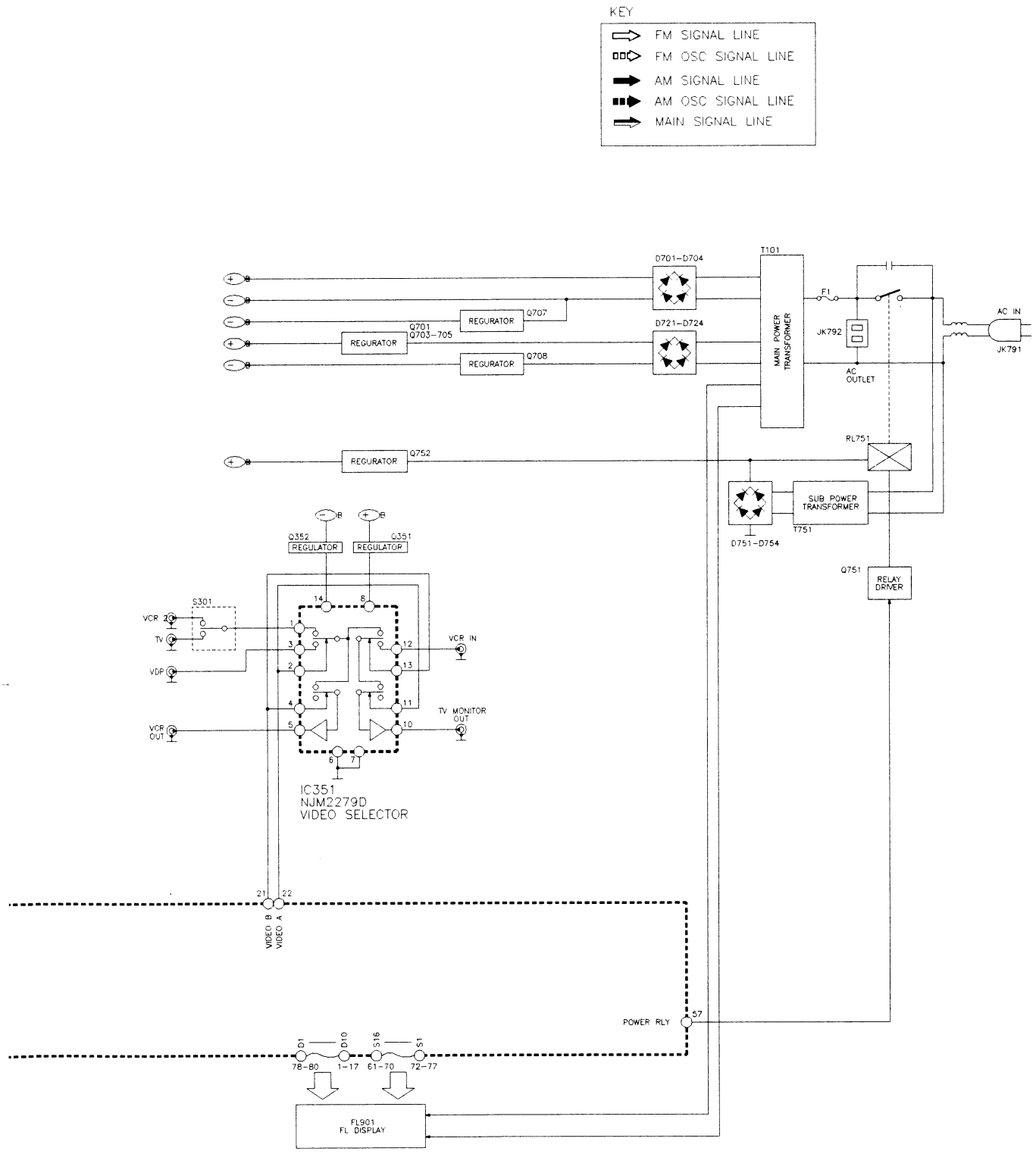
The HIC protection circuit functions if any cord at a speaker terminal is short-circuited or if the unit overheats because of improper operation. At the same time, "OVERLOAD" scrolls across the FL display.
In this state, all keys remain in operative; if any key is pressed, "SWITCH OFF POWER" scrolls across the FL display.
If an overload occurs, immediately power off the unit and check the speaker connection, venting holes and cooling fans. After fixing any faults, power on the unit again and check for proper operation.
If no defects are found, or if the unit remains overload after it is power on again, check the circuit for faults.

■ Block Diagram




IC401
TC9163N
INPUT
SELECTOR
IC451
AN6558F
PHONO
EQ AMP.
BUFFER AMP
Q107 (Q108)
CD
TAPE REC OUT
VCR REC
REC MUTE
Q401 (Q402)
VCR1 PB
VPD
TV
VCR2 (FRONT)
S301
TAPE PLAYBACK
IC402
M5218AP
BUFFER AMP
STB
LEVEL SHIFT
CLK
LATCH CCT
DATA
SHIFT REG
IC1003
TC9214P
SIGNAL SELECTOR
R CH
L CH
VR501-3(4)
(VOLUME)
VR502
(BALANCE)
LOUDNESS SWITCH
CENTER
VR501-1
(VOLUME)
SURROUND
VR501-2
(VOLUME)
IC1001
LA2785
PRO LOGIC DECODER
CSC
DIVIDER
BLANCE CONTROL
VR CONTROL
VTR
CONTROL
MUTO
LPF
RECT
LOG DIFF
DATA IC CONTROL
C TRIM
NOISE CH
NOISE GENERATOR
LPF
NOISE FILTER
C MODE
VCA
PS
VREF
M
VOLUME MOTOR
DRIVE
DIRECTION SELECT
IC501
BA6218
MOTOR DRIVE
CONTROL LOGIC
SRAM
A/D
D/A
EJECT SW
S-TRIM
OSC
20K L.P.F
OUT NR IN
OUT 7K L.P.F IN
V.REF
CONTROL
CF1051
IC1002
LV1010N
DIGITAL DELAY
SUR/OSD CK
SUR/OSD DT
SUR CL
REC MUTE
VOL DN
VOL UP
LOUDNESS
FM STEREO
SD
IF DATA
TNR CE
SEL/TNR DT
SEL/TNR CK
SEL ST
STANDBY LED


IC511
UPC45700
TONE AMP
TREBLE
SUB WOOFER
VR1150
IC1151
SUB WOOFER AMP
Q505
(Q506)
AF MUTE
Q611
PRE AMP
POWER LIMITER
Q581
Q583
IC601
RSN36S5
CLASS H
POWER AMP
(SLAVE)
SHORT CIRCUIT TEMP. DETEC-TION
AF MUTE
Q1151
Q681
(Q682)
AF MUTE
R CH
HP601
HEADPHONE
L CH
R CH
FRONT SPEAKER
A
B
SUB WOOFER OUT
SUB WOOFER
CENTER SPEAKER
L CH
R CH
SURROUND SPEAKER
IC551 (1/2)
BUFFER AMP (CENTER)
Q571
Q574
POWER LIMITER
Q551
Q552
AF MUTE
IC602
RSN36S5
CLASS H
POWER AMP
(SLAVE)
IC551 (1/2)
BUFFER AMP (SURROUND)
Q771~776
FAN MOTOR DRIVE
FAN MOTOR
+Vcc Hi
+Vcc Low
-Vcc Low
-Vcc Hi
R CH
Q612
PRE AMP
Q582
Q584
POWER LIMITER
SHORT-CIRCUIT TEMP. LATCH
MUTE C (TIME)
DC DETECTION
OVER LOAD DETECTION
RELAY CONTROL
Q610
SWITCH-ING
H MUTE
IC603
RSN33M5-P
CLASS H
POWER AMP (MASTER)
RELAY DRIVER
Q601
Q604
Q901
Q902
RESET CONTROL
SP A B S/C SPEAKER SELECT
Q605
Q606
CF901
(4MHz)
HOLD
RESET
LIMITER
AF MUTE
OVER LOAD
THERMAL
S/C SP
SP B
SP A
X IN
X OUT
UPD78043A041
MICROCOMPUTER
HELP LED
HELP
REMOTE
ZB91
REMOTE SENSOR
V DD
AV DD
V DD
V LOAD
D901
GND
GND
KEY1
KEY4
KEY MATRIX


KEY
FM SIGNAL LINE
FM OSC SIGNAL LINE
AM SIGNAL LINE
AM OSC SIGNAL LINE
MAIN SIGNAL LINE
D701–D704
T101
F1
AC IN
JK791
JK792
AC OUTLET
MAIN POWER TRANSFORMER
REGURATOR
Q707
Q701
Q703–705
Q708
D721–D724
Q752
RL751
SUB POWER TRANSFORMER
T751
D751–D754
Q751
RELAY DRIVER
Q352
Q351
S301
VCR 2
TV
VDP
VCR OUT
VCR IN
TV MONITOR OUT
IC351
NJM2279D
VIDEO SELECTOR
VIDEO B
VIDEO A
POWER RLY
D1
D10
S16
S1
78–80
1–17
61–70
72–77
FL901
FL DISPLAY

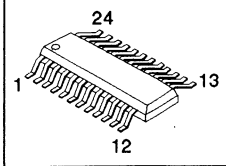
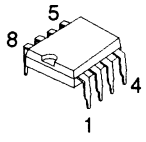
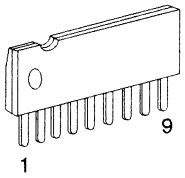
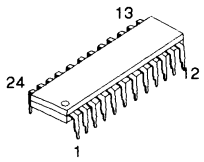
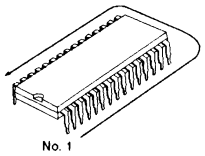
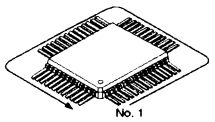
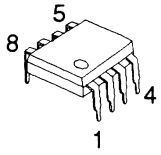
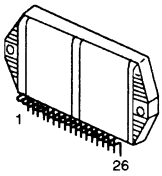
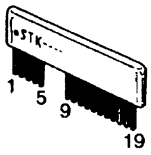
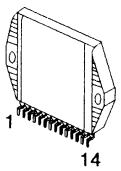
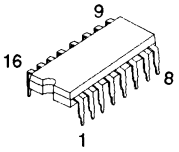
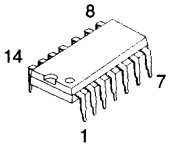
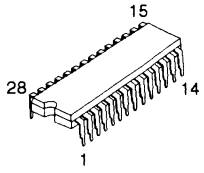
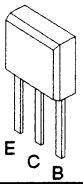
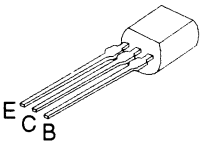
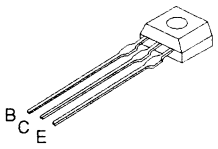
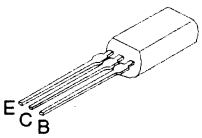
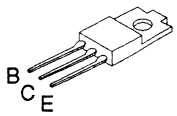
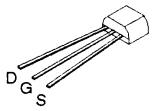
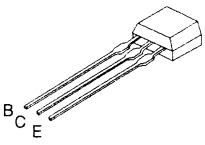
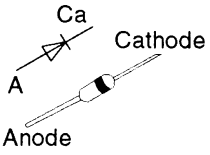
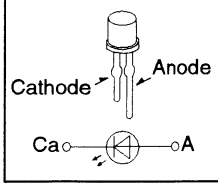
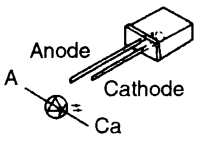
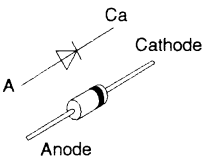
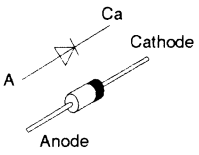
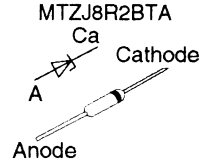
■ Terminal Functions Of ICs

• IC901 (UPD78043A047) System Microprocessor

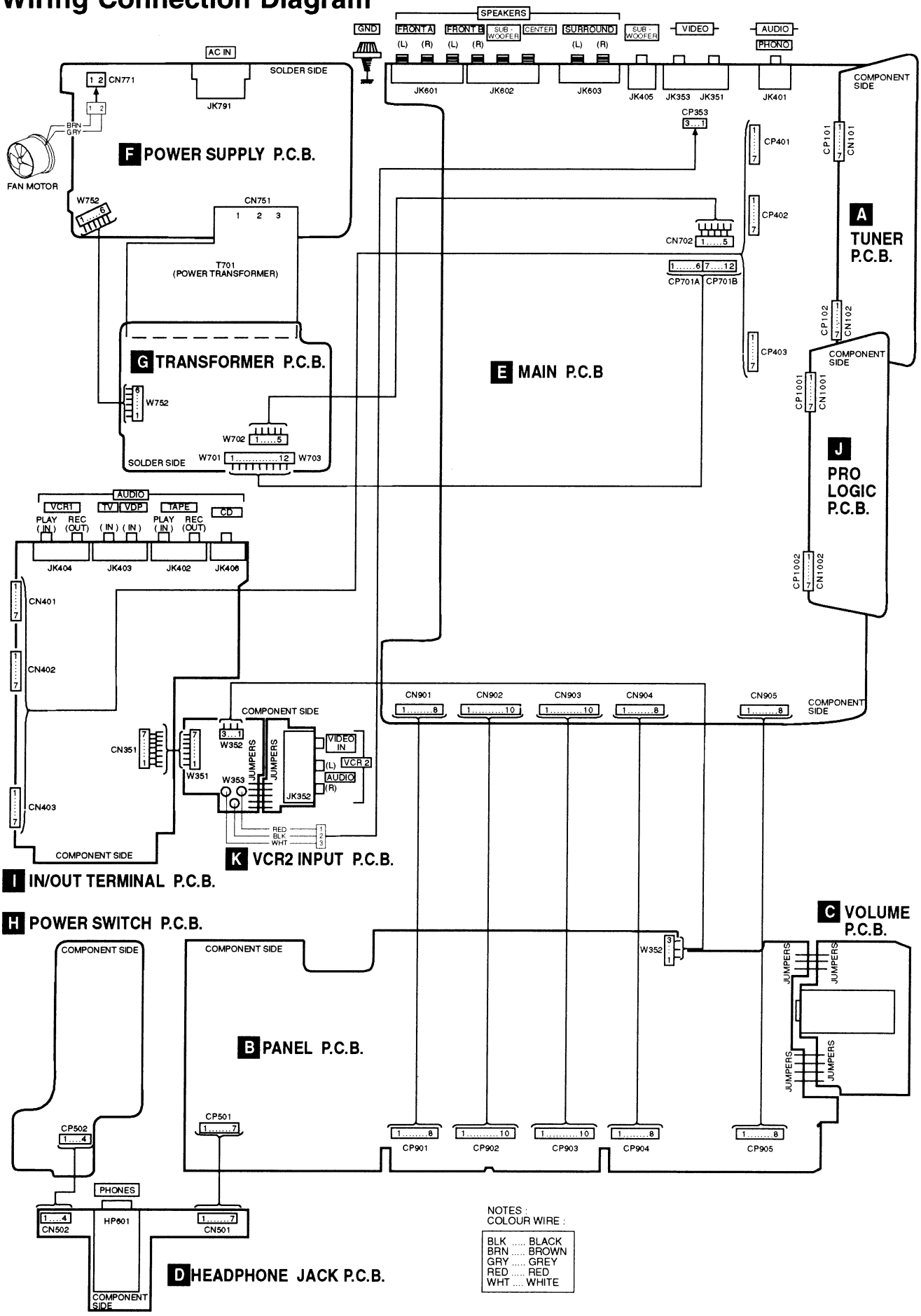
Pin No.	Mark	I/O	Function
1~7	D4 ~ D10	O	Digit signal of FL display
8	VDD	I	Power supply terminal
9	SUR_CK	O	Serial clock signal
10	SUR_DT	O	Serial data signal
11	RDS_ID	I	RDS detect terminal
12	SUR_CE	O	Chip enable signal
13	VOL_UP	O	Rotate control terminal of
14	VOL_DWN	O	volume motor
15	LOUDNESS	–	Not used
16	FM_STEREO	I	Stereo signal detect terminal
17	RESET	I	Reset detect terminal
18	SD	I	Received signal detect terminal
19	N.C.	–	Not used
20	GND	–	GND terminal
21	VIDEO_B	O	Video selector control terminal
22	VIDEO_A	O	
23	IF_DATA	I	Serial data signal
24	THERMAL	O	Muting relay control terminal
25~28	KEY1~KEY4	I	Key matrix detect terminal
29	AVDD	I	Power supply terminal
30	AVREF	I	Power supply terminal
31	OVERLOAD	I	Over load detect terminal
32	XT2	–	Not used
33	GND	–	GND terminal
34	XIN	I	Crystal oscillator terminal
35	XOUT	O	(4MHz)
36~38	SFC1~SFC3	–	Not used
39	TV/VCR2	I	TV and VCR select control terminal
40	RDS_DT	I	RDS data signal
41	TNR_CE	O	Chip enable signal
42	SEL/TNR_DT	O	Serial data signal
43	SEL/TNR_CK	O	Serial clock signal
44	RDS_ST	O	RDS start signal
45	RDS_CK	O	RDS clock signal
46	HOLD	I	Hold signal input terminal
47	REMOTE	I	Remote control terminal
48	GND	–	GND terminal
49	SEL_ST	O	Level shift control terminal
50	HELP_LED	O	LED drive signal(HELP)
51	STANDBY_LED	–	Not used
52	VDD	I	Power supply terminal
53	REC_MUTE	–	Not used
54	S/C_SP	O	Surround and speaker select control terminal
55	SP_B	–	Not used

Pin No.	Mark	I/O	Function
56	SP_A	O	Speaker select control terminal
57	POWER_RLY	O	Relay control terminal
58	AF_MUTE	O	Muting control terminal
59	LIMITTER	–	Not used
60	INIT_IN	–	Not used, connect to resistor
61~70	S16 ~ S7	O	Segment signal of FL display
71	VLOAD	I	Power supply terminal
72~77	S6 ~ S1	O	Segment signal of FL display
78~80	D1 ~ D3	O	Digit signal of FL display

■ Terminal Guide of ICs, Transistors and Diodes

LA1832A LC7218 	AN6558-F UPC4570C 	BA6218 	LV1010N 	LA2785 (42 PIN) 	UPD78043A047 (80 PIN) 
M5218AP 	RSN33M5-P 	STK311-010 	RSN36S5-P 	TC9214P 	NJM2279D 
TC9163N 	2SC3311ARTA 	2SB621ARTA 	2SA1309ARTA 2SC2785FETA 2SC2787LTA 2SD1915FTA UN4119TA UN411FTA UN421FTA 		2SC3940AQSTA 2SD592AQSTA 
2SB1548PQAU 2SD2374PQAU 	2SJ40CDTA 2SK381CTA 	2SA933SSTA RVTDTA114EST RVTDTC114EST RVTDTC114YST 		1SR35200TB 1SS291TA MA165TA MA167TA MA700ATA MA723TA RVD1SS133TA	
LN41YCPHL 	LN846RPH 	1N5402BM21 	P300DLF SB360L6508 	MTZJ10CTA MTZJ15CTA MTZJ24DTA MTZJ3R0ATA MTZJ3R9ATA MTZJ4R7BTA MTZJ5R1BTA MTZJ5R6BTA MTZJ6R2BTA	MTZJ6R8BTA MTZJ7R5CTA MTZJ8R2BTA 

■ Wiring Connection Diagram



■ Schematic Diagram

(All schematic diagrams may be modified at any time with the development of new technology)

Note :

- **S301** : TV/VCR2 select switch
- **S946** : Power switch
- **S947** : Phono select switch
- **S948** : Muting switch
- **S950** : FM Auto/ Mono switch
- **S951** : Band select switch
- **S952** : Tuning decrease switch
- **S953** : Tuning increase switch
- **S954** : Memory manual/auto switch
- **S955** : Sleep switch
- **S956** : Preset decrease switch
- **S957** : Preset increase switch
- **S958** : Help switch
- **S960** : Tuner select switch
- **S961** : CD select switch
- **S962** : Tape select switch
- **S963** : TV/VCR2 select switch
- **S964** : VCR1 select switch
- **S970** : PTY search switch
- **S971** : EON ON/OFF switch
- **S972** : PTY select up switch
- **S973** : PTY select down switch
- **S974** : RDS display mode select switch
- **S975** : VDP switch
- **S976** : Delay time switch
- **S980** : Speakers A switch
- **S981** : Speakers B switch
- **S982** : Loudness switch
- **S983** : Dolby Pro Logic surround off/on switch
- **S984** : Dolby Pro Logic 3 stereo mode select switch
- **S985** : Center mode select switch
- **VR501-1 ~ VR501-4** : Volume control
- **VR502** : Balance control
- **VR511-1 ~ VR511-2** : Bass control
- **VR512-1 ~ VR512-2** : Treble control
- **VR1150** : Sub-Woofer control

• Signal line

: +B line

: Main signal line

: –B line

: AM signal line

: AM OSC signal line

: FM signal line

: FM OSC signal line

•The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis.
Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

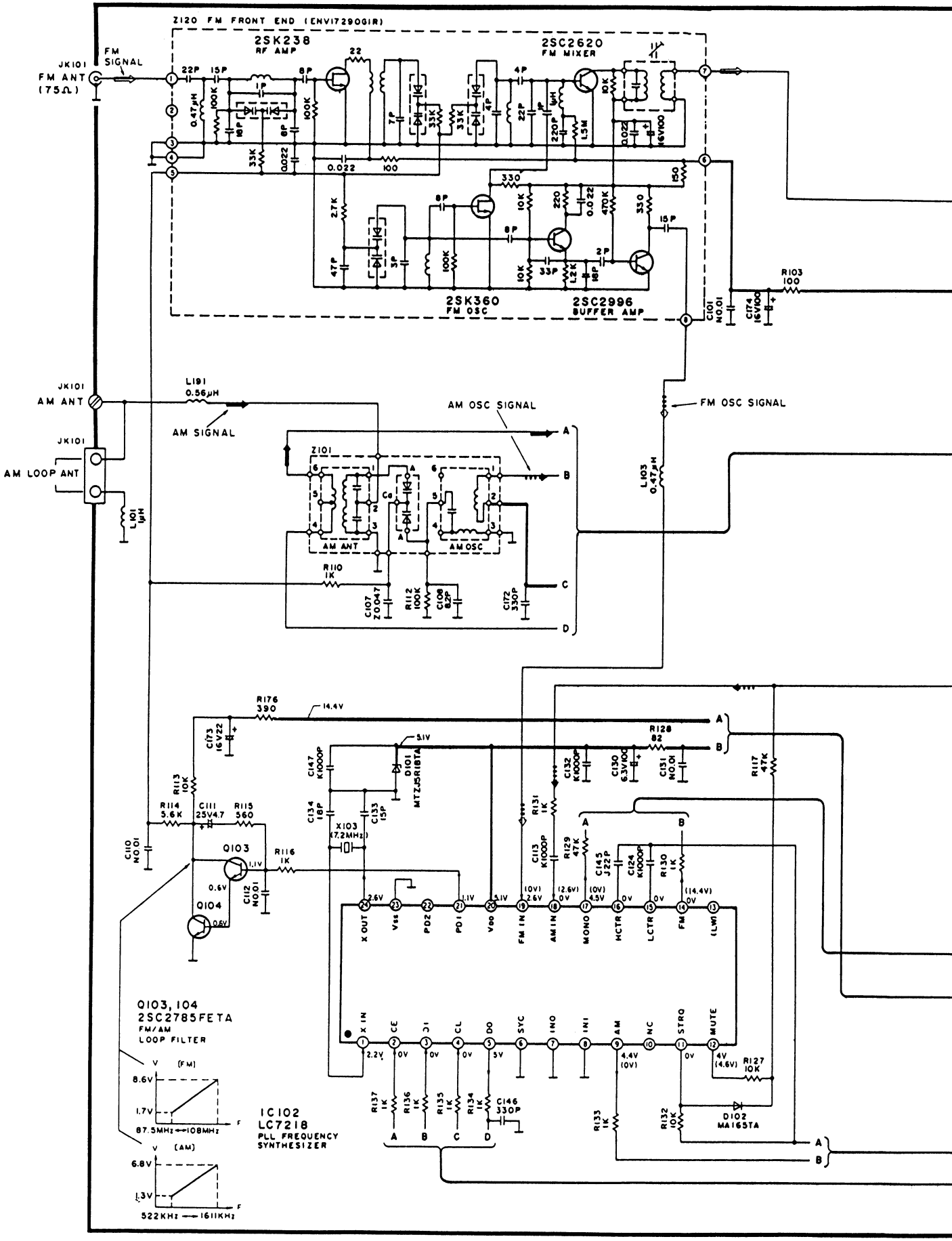
( ) ..... AM < > ..... FM

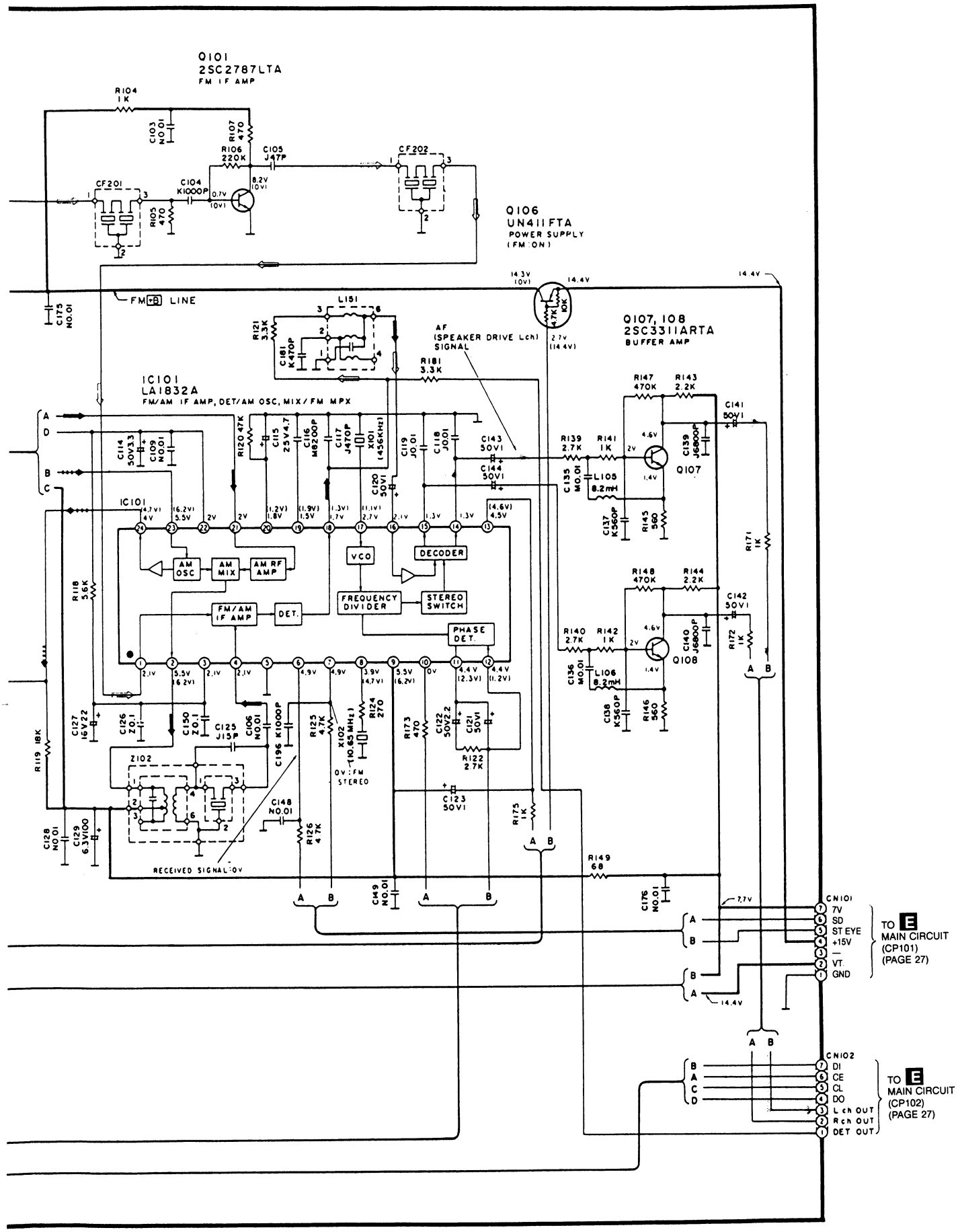
•Importance safety notice:
Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

Caution !
IC, LSI and VLSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.
•Cover the parts boxes made of plastics with aluminium foil.
•Ground the soldering iron.
•Do not touch the pins of IC, LSI or VLSI with fingers directly.
•Put a conductive mat on the work table.

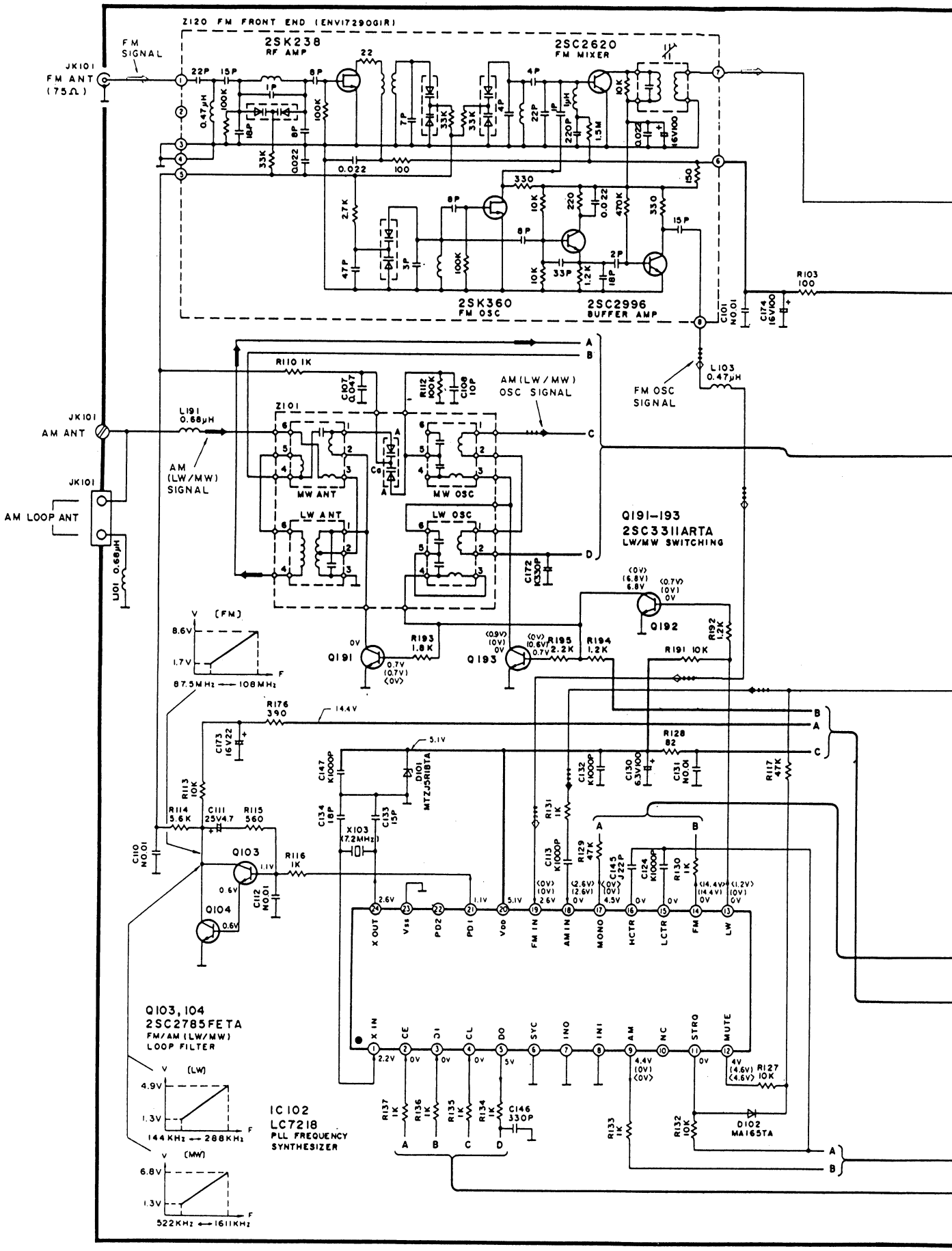
■ Schematic Diagram

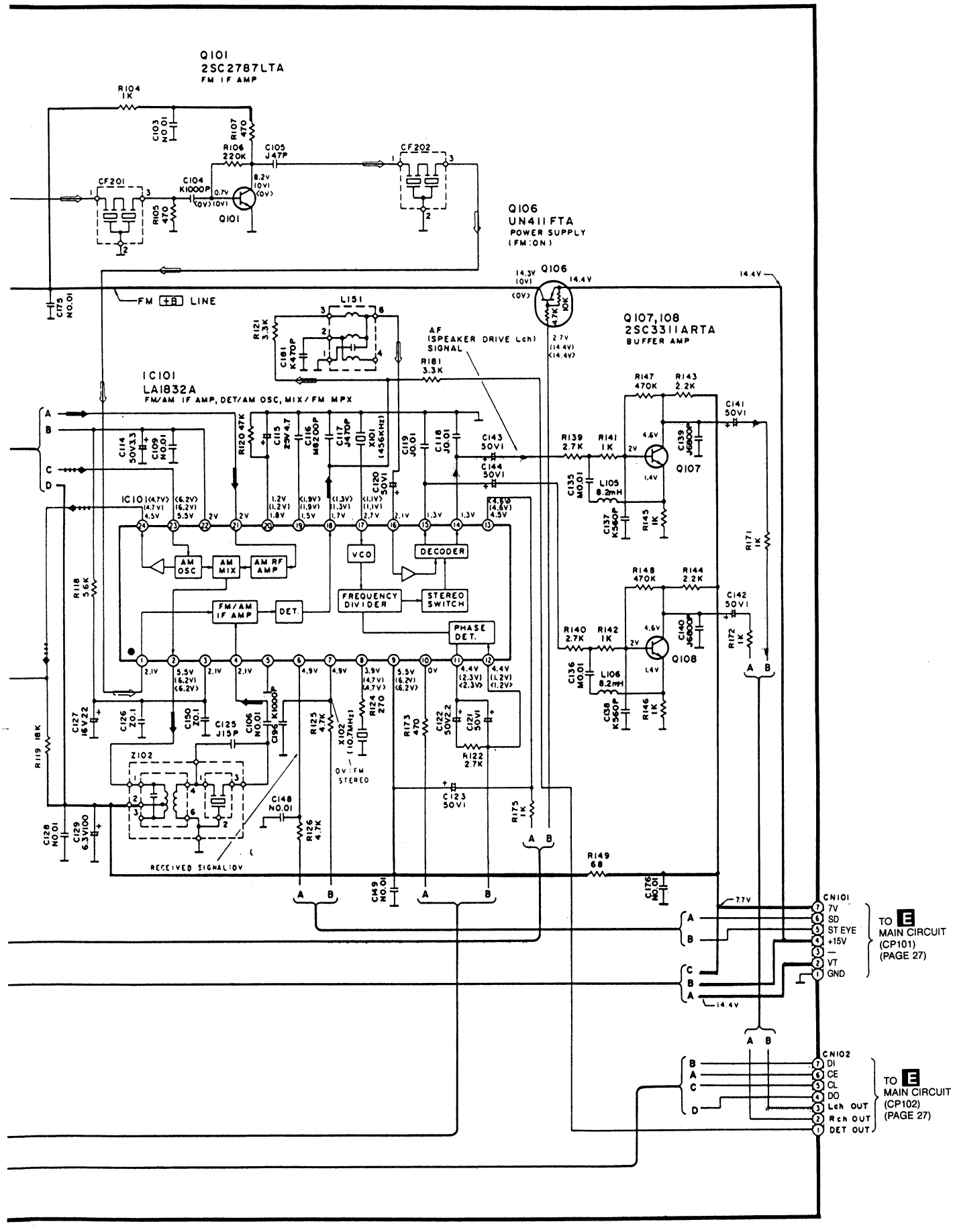
A TUNER CIRCUIT For (EG) area



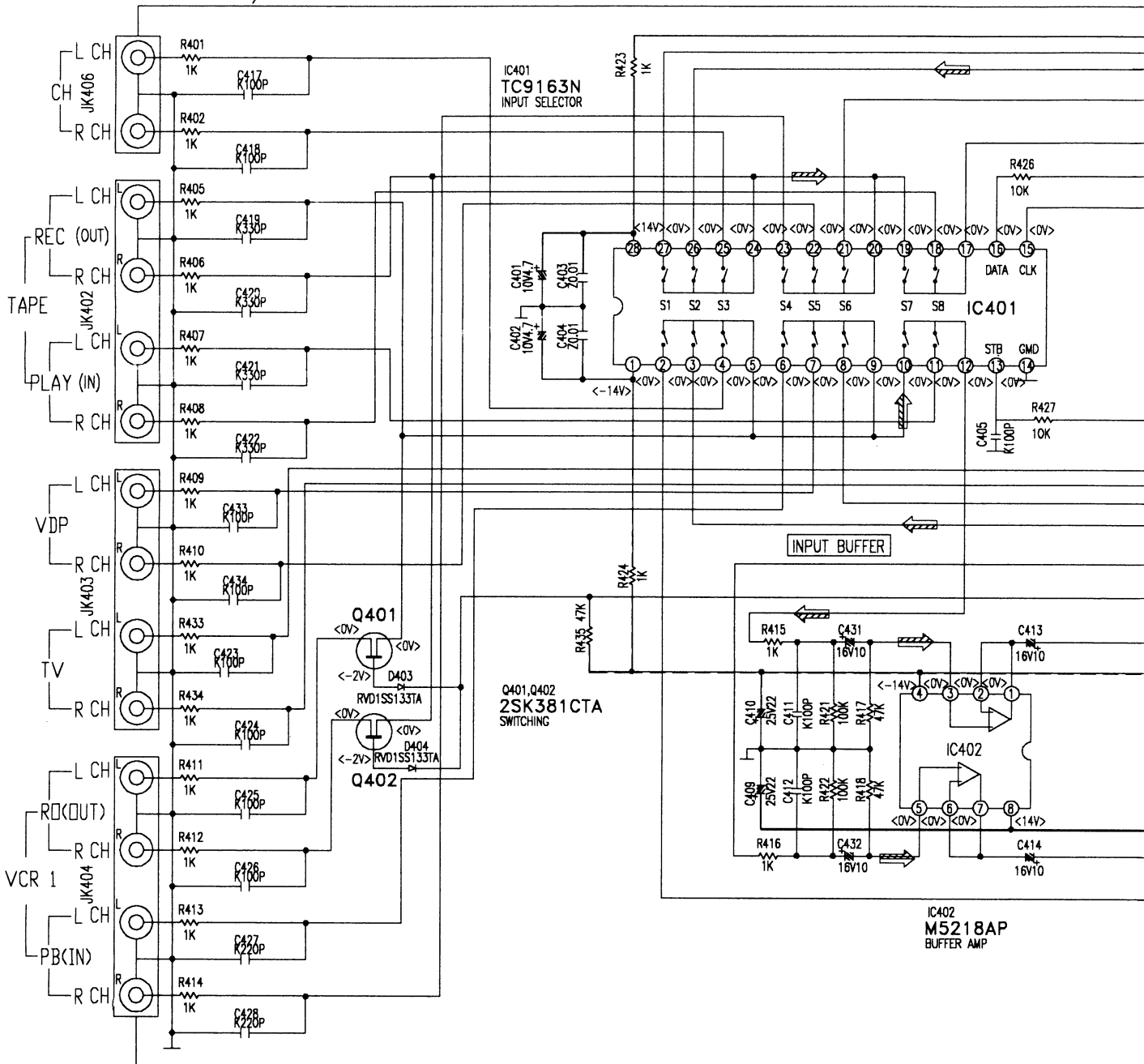

Q101
2SC2787LTA
FM IF AMP
Q106
UN411FTA
POWER SUPPLY
(FM ON)
Q107, 108
2SC3311ARTA
BUFFER AMP
IC101
LA1832A
FM/AM IF AMP, DET/AM OSC, MIX/FM MPX
FM+B LINE
AF
(SPEAKER DRIVE Lch)
SIGNAL
AM OSC
AM MIX
AM RF AMP
FM/AM IF AMP
DET.
VCO
DECODER
FREQUENCY DIVIDER
STEREO SWITCH
PHASE DET.
RECEIVED SIGNAL
0V: FM STEREO
CN101
7V
SD
ST EYE
+15V
—
VT
GND
TO E
MAIN CIRCUIT
(CP101)
(PAGE 27)
CN102
DI
CE
CL
DO
L ch OUT
R ch OUT
DET OUT
TO E
MAIN CIRCUIT
(CP102)
(PAGE 27)

A TUNER CIRCUIT For (E) & (EB) areas



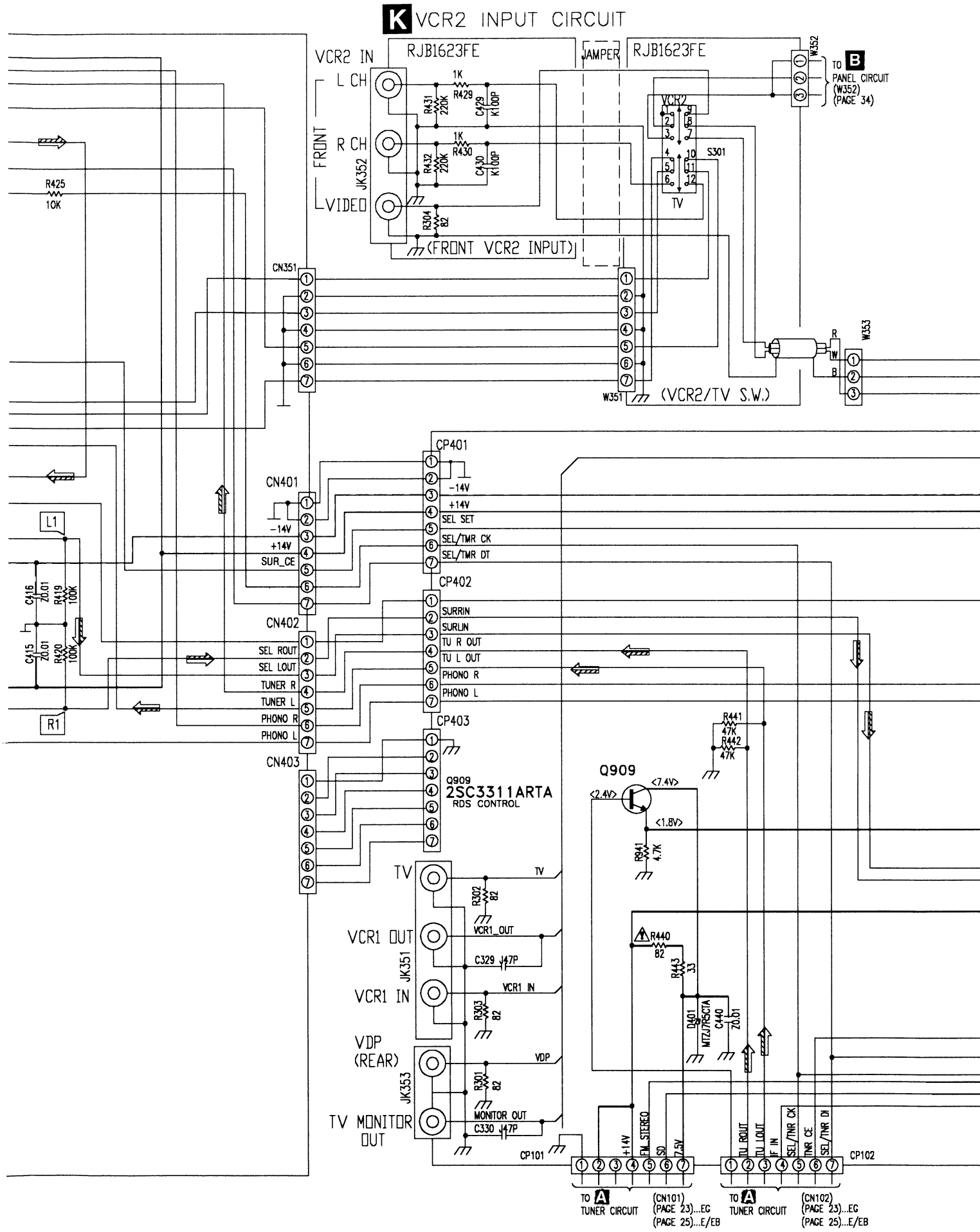

Q101
2SC2787LTA
FM IF AMP
Q106
UN411FTA
POWER SUPPLY
(FM:ON)
FM +B LINE
IC101
LA1832A
FM/AM IF AMP, DET/AM OSC, MIX/FM MPX
AM OSC
AM MIX
AM RF AMP
FM/AM IF AMP
DET.
VCO
DECODER
FREQUENCY DIVIDER
STEREO SWITCH
PHASE DET.
Q107,108
2SC3311ARTA
BUFFER AMP
AF (SPEAKER DRIVE Lch) SIGNAL
RECEIVED SIGNAL:0V
0V:FM STEREO
CN101
7V
SD
ST EYE
+15V
—
VT
GND
TO E MAIN CIRCUIT (CP101) (PAGE 27)
CN102
DI
CE
CL
DO
Lch OUT
Rch OUT
DET OUT
TO E MAIN CIRCUIT (CP102) (PAGE 27)

IN/OUT TERMINAL CIRCUIT

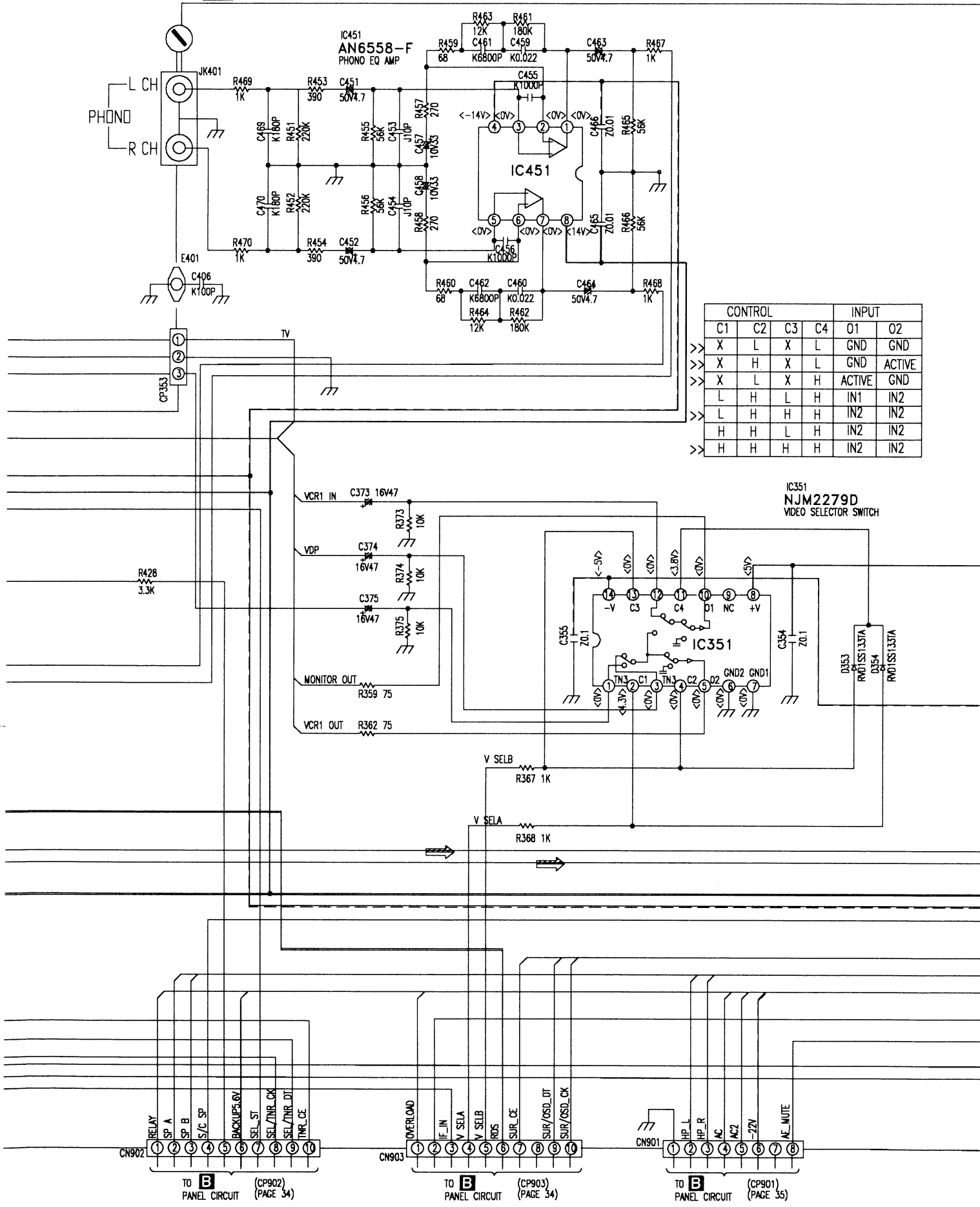


INPUT SELECTOR	NJU7312AL SV							
	S1	S2	S3	S4	S5	S6	S7	S8
PHONO	ON				ON		ON	
TUNER		ON			ON		ON	
C D			ON		ON		ON	
VCR2					ON		ON	
VCR1				ON			ON	
TAPE MONITOR	•	•	•	•	•	•	•	ON

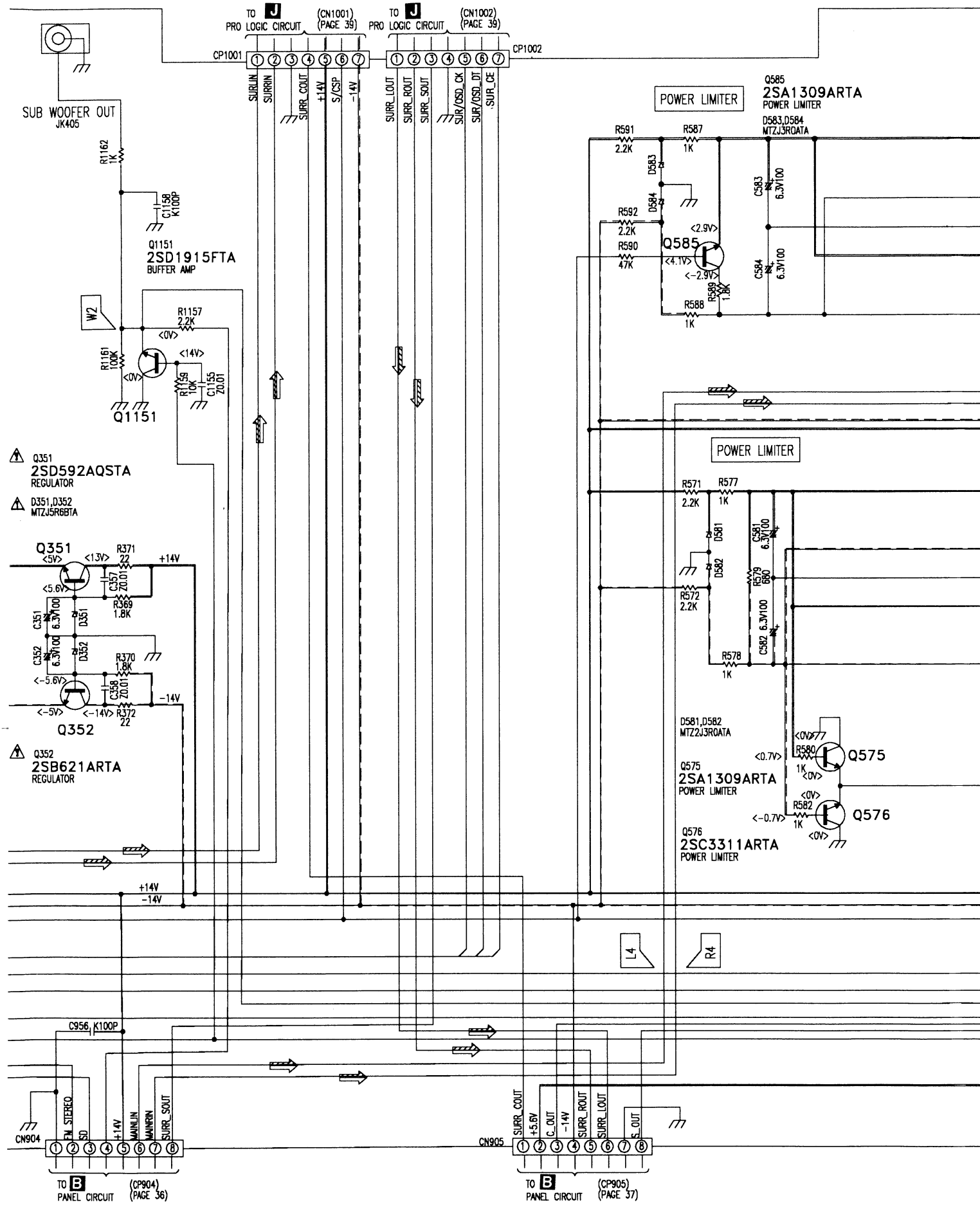
BLANK– OFF
•—— NOT CHANGE

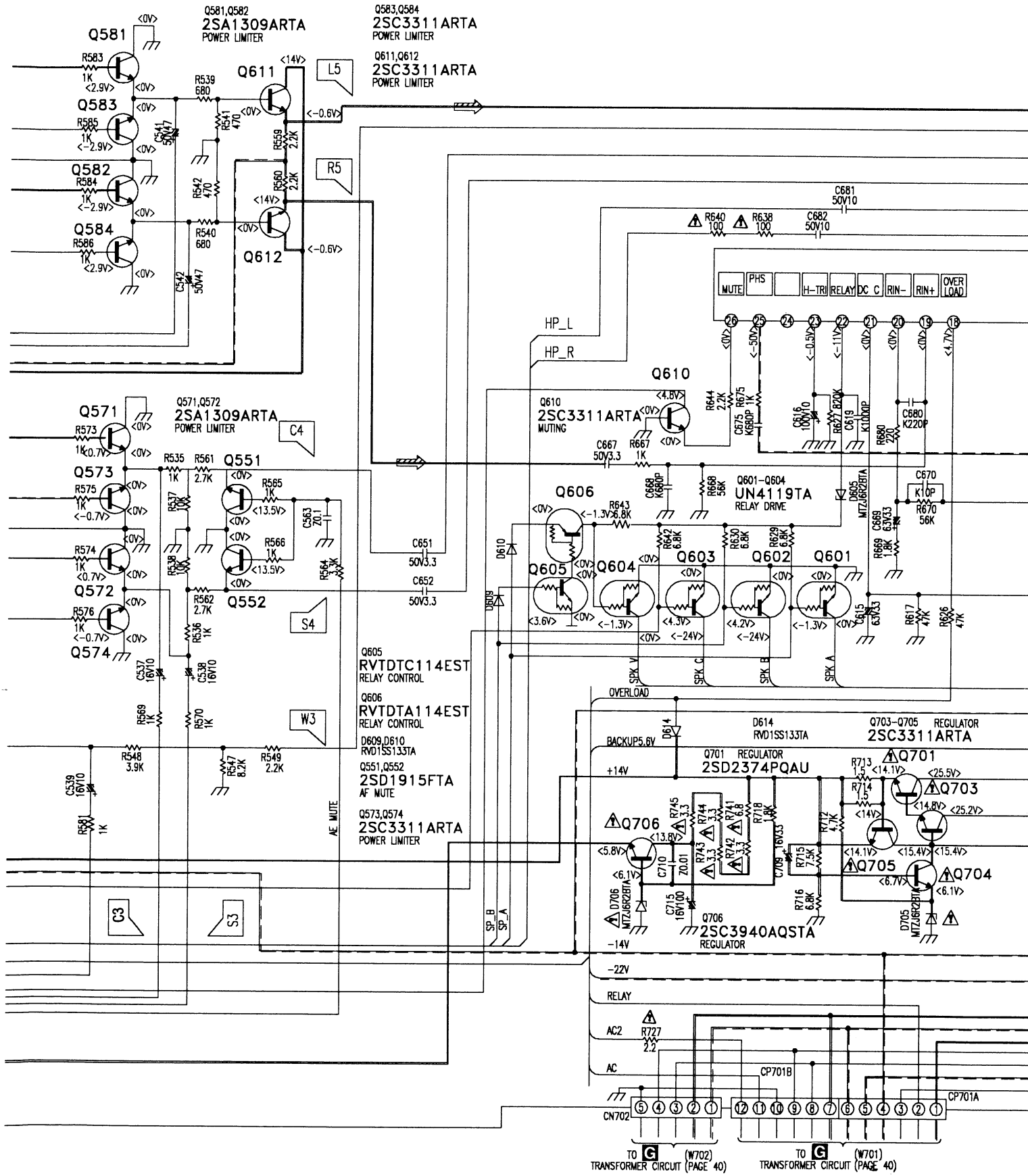

K VCR2 INPUT CIRCUIT
VCR2 IN
RJB1623FE
JAMPER
RJB1623FE
L CH
R CH
VIDEO
FRONT
JK352
R431 220K
R432 220K
1K R429
1K R430
C429 K100P
C430 K100P
R304 82
(FRONT VCR2 INPUT)
VCR2
TV
S301
W352
TO B
PANEL CIRCUIT
(W352)
(PAGE 34)
R425 10K
CN351
W351
(VCR2/TV S.W.)
W353
R
W
B
CP401
CN401
-14V
+14V
SEL SET
SEL/TMR CK
SEL/TMR DT
SUR_CE
CP402
CN402
SURRIN
SURLIN
TU R OUT
TU L OUT
PHONO R
PHONO L
SEL ROUT
SEL LOUT
TUNER R
TUNER L
PHONO R
PHONO L
CP403
CN403
L1
R1
C416 Z0.01
R419 100K
C415 Z0.01
R420 100K
Q909
2SC3311ARTA
RDS CONTROL
<7.4V>
<2.4V>
<1.8V>
R941 4.7K
R441 47K
R442 47K
R440 82
R443 33
D401 MTZJ7R5CTA
C440 Z0.01
TV
VCR1 OUT
VCR1 IN
VDP (REAR)
TV MONITOR OUT
JK351
JK353
R302 82
R303 82
R301 82
C329 J47P
C330 J47P
VCR1_OUT
VCR1 IN
VDP
MONITOR OUT
CP101
+14V
FM STEREO
SD
7.5V
CP102
TU ROUT
TU LOUT
IF IN
SEL/TNR CK
TNR CE
SEL/TNR DI
TO A
TUNER CIRCUIT
(CN101)
(PAGE 23)...EG
(PAGE 25)...E/EB
(CN102)
(PAGE 23)...EG
(PAGE 25)...E/EB

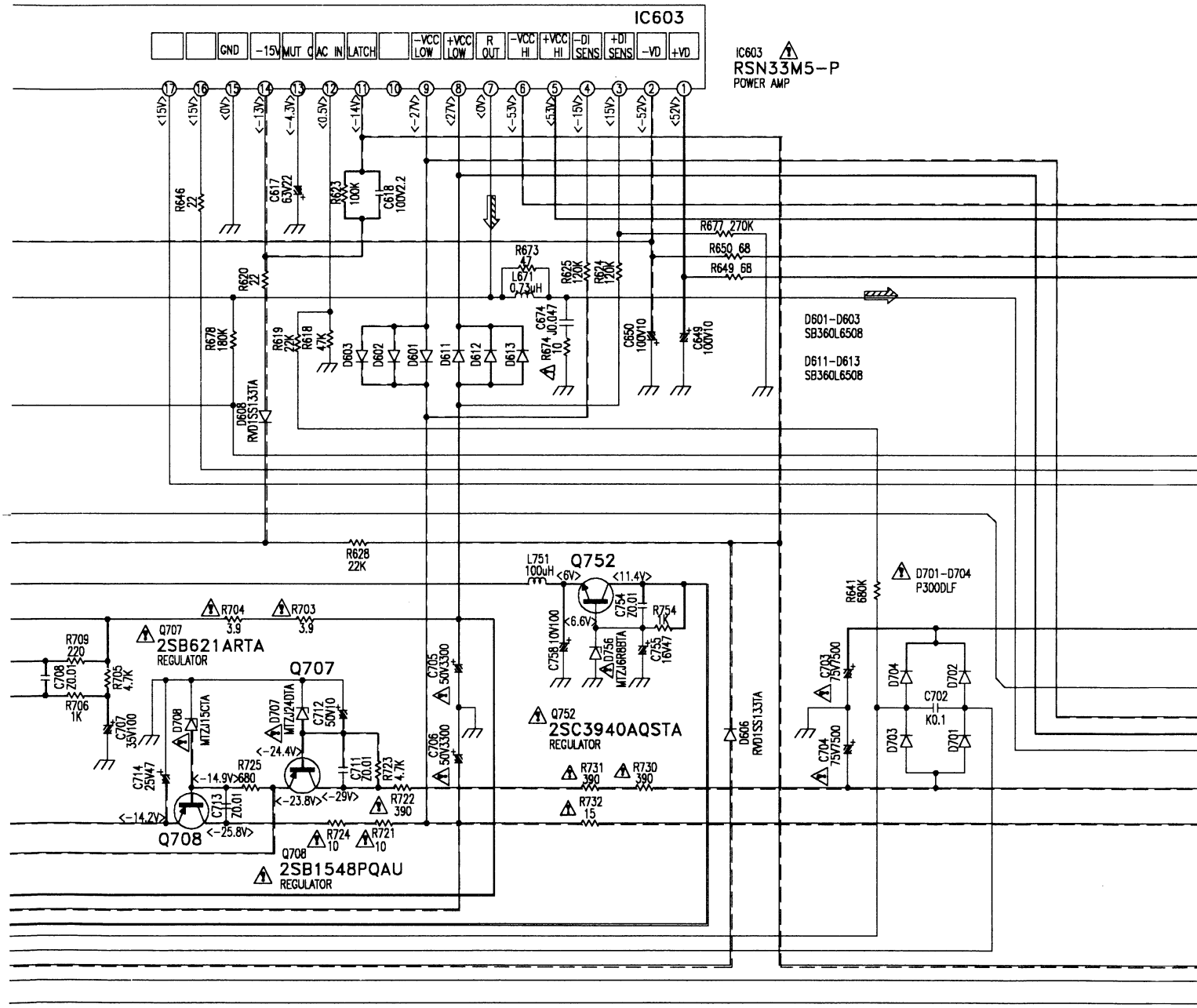
E MAIN CIRCUIT

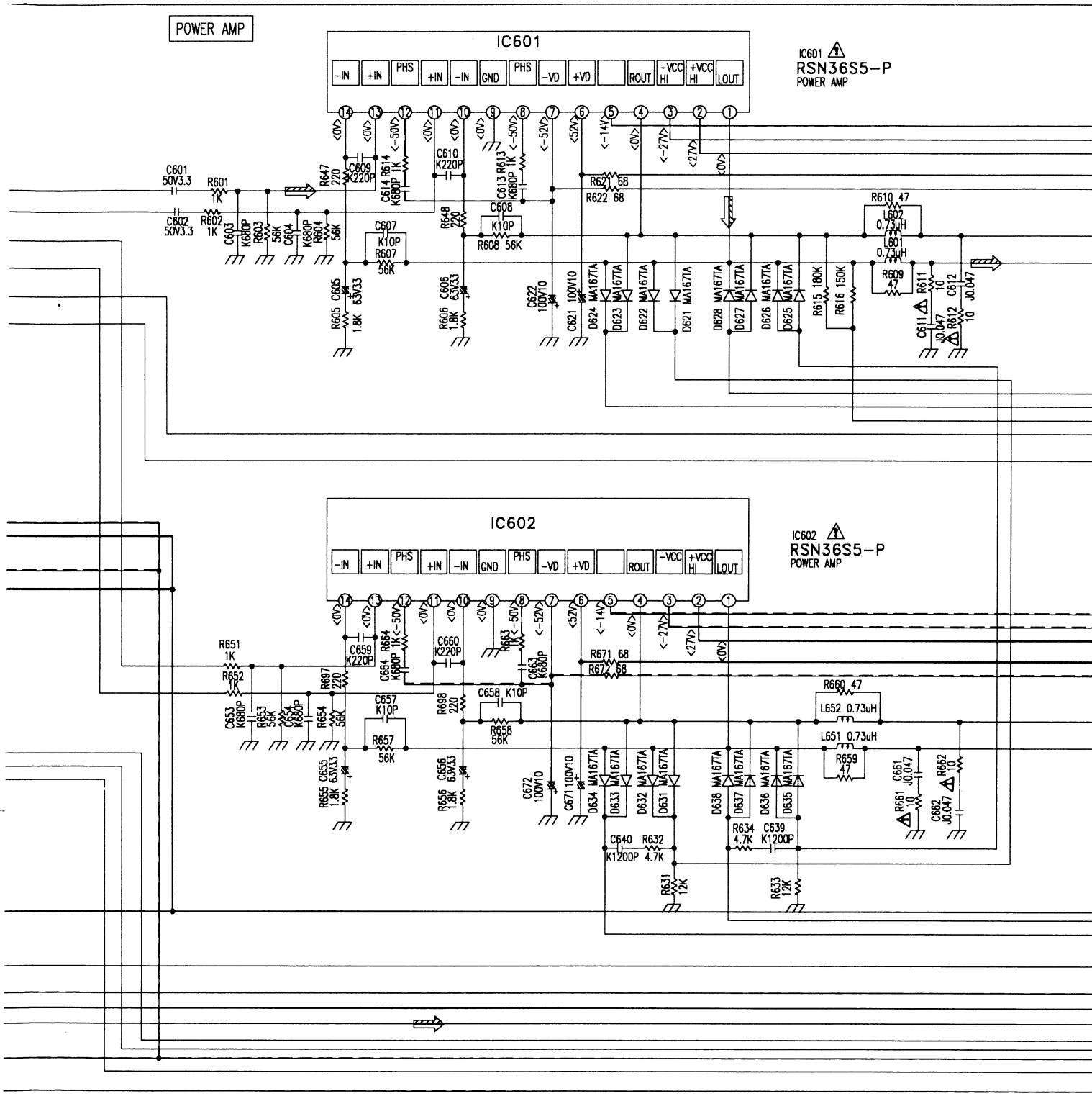


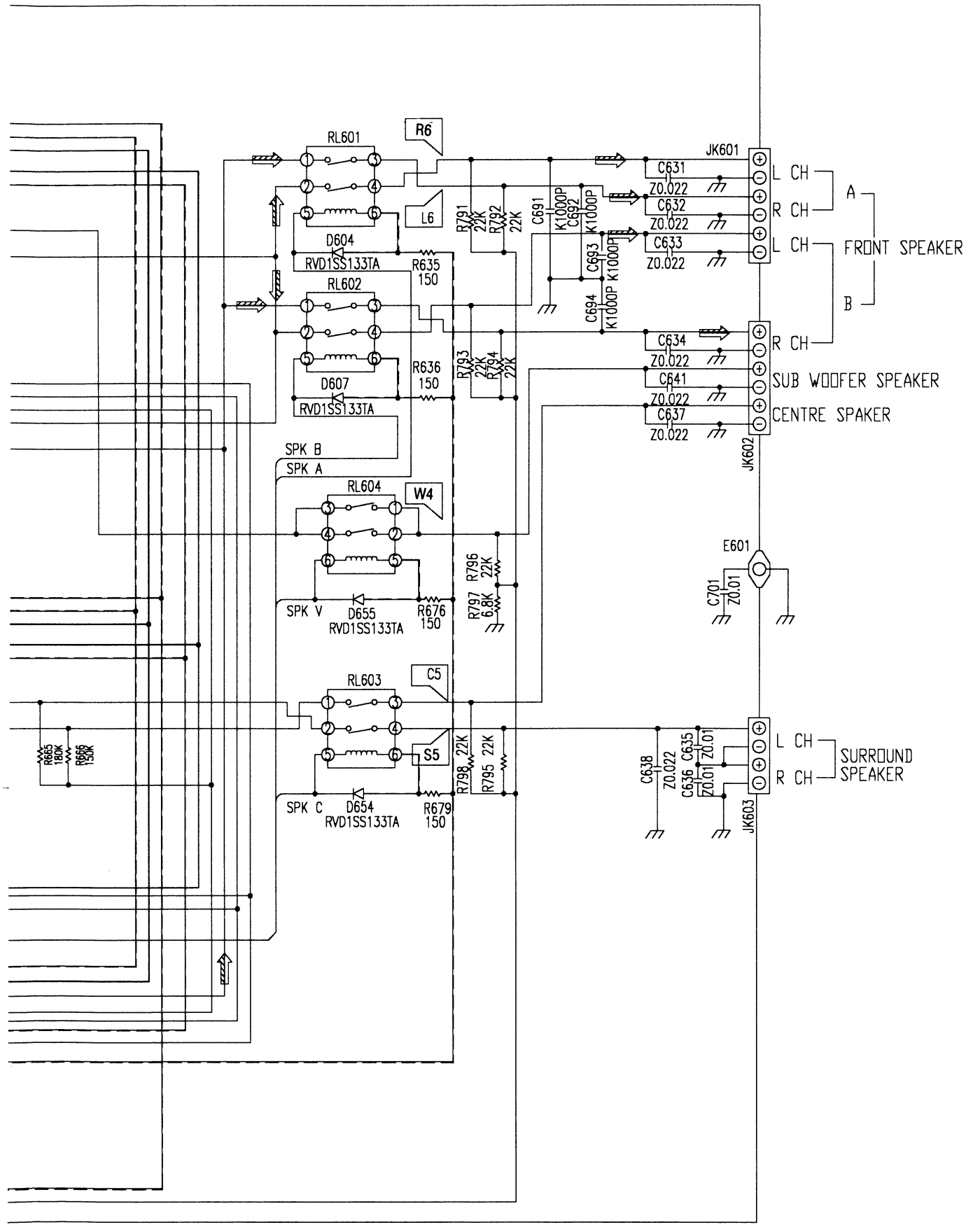
CONTROL				INPUT	
C1	C2	C3	C4	O1	O2
X	L	X	L	GND	GND
X	H	X	L	GND	ACTIVE
X	L	X	H	ACTIVE	GND
L	H	L	H	IN1	IN2
L	H	H	H	IN2	IN2
H	H	L	H	IN2	IN2
H	H	H	H	IN2	IN2


TO J PRO LOGIC CIRCUIT (CN1001) (PAGE 39)
TO J PRO LOGIC CIRCUIT (CN1002) (PAGE 39)
CP1001
CP1002
SURLIN
SURRIN
SURR_COUT
+14V
S/CSP
-14V
SURR_LOUT
SURR_ROUT
SURR_SOUT
SUR/OSD_CK
SUR/OSD_DT
SUR_CE
SUB WOOFER OUT
JK405
R1162 1K
C1158 K100P
Q1151
2SD1915FTA
BUFFER AMP
W2
R1157 2.2K
R1161 100K
R1159 10K
C1155 Z0.01
Q1151
POWER LIMITER
Q585
2SA1309ARTA
POWER LIMITER
D583,D584
MTZJ3R0ATA
R591 2.2K
R587 1K
R592 2.2K
R590 47K
R589 1.8K
R588 1K
C583 6.3V100
C584 6.3V100
Q585
Q351
2SD592AQSTA
REGULATOR
D351,D352
MTZJ5R6BTA
R371 22
R369 1.8K
R370 1.8K
R372 22
C357 Z0.01
C358 Z0.01
C351 6.3V100
C352 6.3V100
D351
D352
Q352
Q352
2SB621ARTA
REGULATOR
POWER LIMITER
R571 2.2K
R577 1K
R572 2.2K
R578 1K
R579 680
C581 6.3V100
C582 6.3V100
D581
D582
D581,D582
MTZ2J3R0ATA
Q575
2SA1309ARTA
POWER LIMITER
R580 1K
R582 1K
Q575
Q576
Q576
2SC3311ARTA
POWER LIMITER
+14V
-14V
L4
R4
C956 K100P
CN904
EN_STEREO
SD
+14V
MAINLIN
MAINRIN
SURR_SOUT
TO B PANEL CIRCUIT (CP904) (PAGE 36)
CN905
SURR_COUT
+5.6V
C_OUT
-14V
SURR_ROUT
SURR_LOUT
S_OUT
TO B PANEL CIRCUIT (CP905) (PAGE 37)

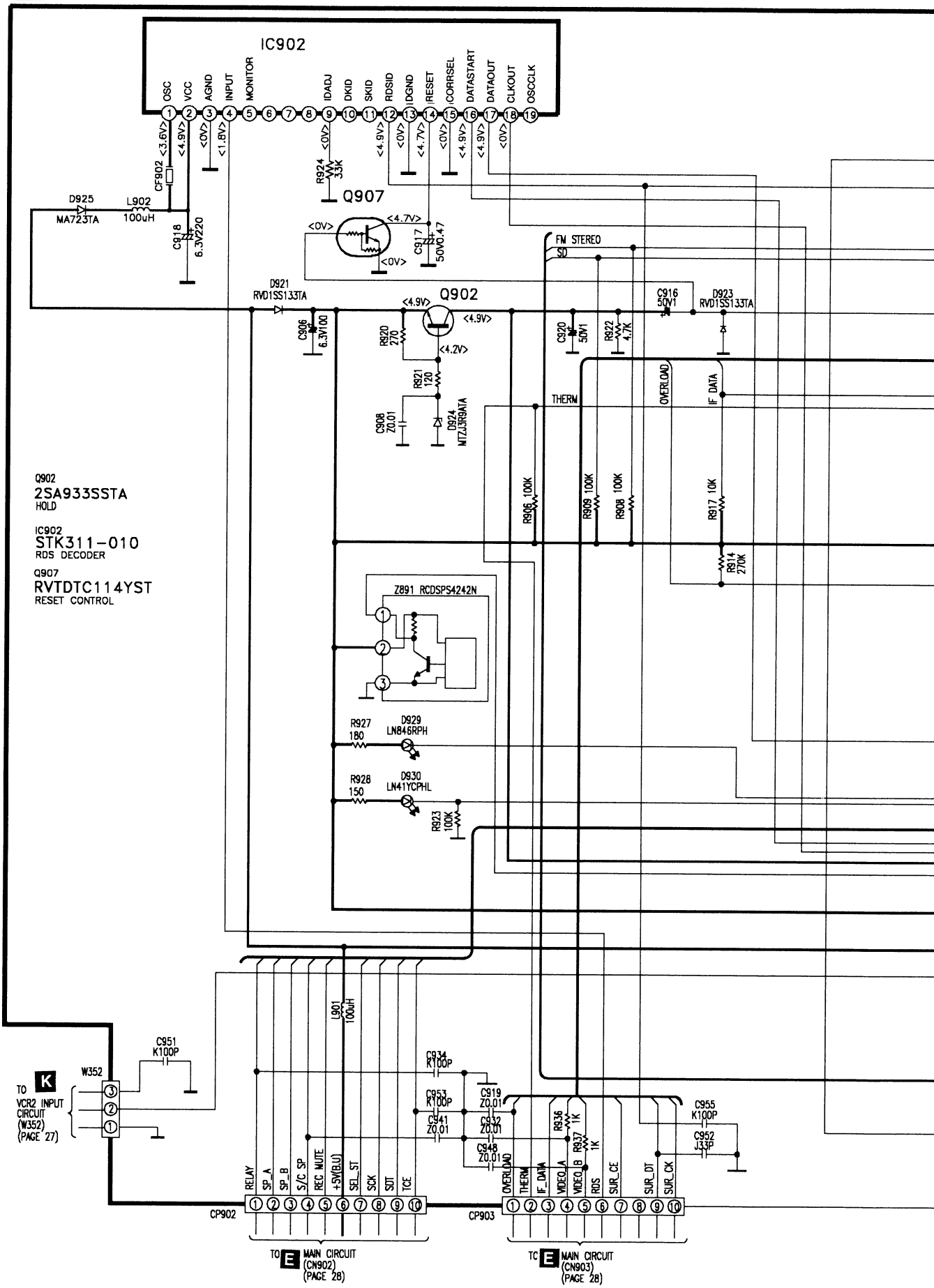

Q581,Q582
2SA1309ARTA
POWER LIMITER
Q583,Q584
2SC3311ARTA
POWER LIMITER
Q611,Q612
2SC3311ARTA
POWER LIMITER
Q571,Q572
2SA1309ARTA
POWER LIMITER
Q610
2SC3311ARTA
MUTING
Q601-Q604
UN4119TA
RELAY DRIVE
Q605
RVTDTC114EST
RELAY CONTROL
Q606
RVTDTA114EST
RELAY CONTROL
D609,D610
RVD1SS133TA
Q551,Q552
2SD1915FTA
AF MUTE
Q573,Q574
2SC3311ARTA
POWER LIMITER
D614
RVD1SS133TA
Q703-Q705
2SC3311ARTA
REGULATOR
Q701
2SD2374PQAU
REGULATOR
Q706
2SC3940AQSTA
REGULATOR
MUTE
PHS
H-TRI
RELAY
DC C
RIN-
RIN+
OVER LOAD
HP_L
HP_R
OVERLOAD
BACKUP5.6V
+14V
-14V
-22V
RELAY
AC2
AC
SPK V
SPK C
SPK B
SPK A
SP_B
SP_A
AE MUTE
CP701B
CP701A
CN702
TO G (W702)
TRANSFORMER CIRCUIT (PAGE 40)
TO G (W701)
TRANSFORMER CIRCUIT (PAGE 40)


IC603
GND
-15V
MUT C
AC IN
LATCH
-VCC LOW
+VCC LOW
R OUT
-VCC HI
+VCC HI
-DI SENS
+DI SENS
-VD
+VD
IC603
RSN33M5-P
POWER AMP
R646 22
C617 63V22
R623 100K
C618 100V2.2
R677 270K
R650 68
R649 68
R673
L671 0.73uH
R620 22
R625 120K
R624 120K
R678 180K
R619 22K
R618 47K
D603
D602
D601
D611
D612
D613
C674 J0.047
R674 10
C650 100V10
C649 100V10
D601-D603
SB360L6508
D611-D613
SB360L6508
D608
RVD1SS133TA
R628 22K
L751 100uH
Q752
<6V>
<11.4V>
C754 Z0.01
R754 1K
<6.6V>
C758 10V100
D756 MTZJ6R8BTA
C755 16V47
Q752
2SC3940AQSTA
REGULATOR
R731 390
R730 390
R732 15
D606
RVD1SS133TA
R641 680K
D701-D704
P300DLF
C703 75V7500
C704 75V7500
D704
D702
D703
D701
C702 K0.1
R704 3.9
R703 3.9
Q707
2SB621ARTA
REGULATOR
Q707
R709 220
C708 Z0.01
R705 4.7K
R706 1K
C707 35V100
D708 MTZJ15CTA
D707 MTZJ24DTA
C712 50V10
C705 50V3300
C706 50V3300
<-24.4V>
C714 25V47
<-14.9V>
R725 680
C711 Z0.01
R723 4.7K
<-23.8V>
<-29V>
R722 390
<-14.2V>
C713 Z0.01
Q708
<-25.8V>
R724 10
R721 10
Q708
2SB1548PQAU
REGULATOR


POWER AMP
IC601
-IN
+IN
PHS
+IN
-IN
GND
PHS
-VD
+VD
ROUT
-VCC HI
+VCC HI
LOUT
IC601
RSN36S5-P
POWER AMP
C601 50V3.3
C602 50V3.3
R601 1K
R602 1K
C603 K680P
R603 56K
C604 K680P
R604 56K
C609 K220P
C610 K220P
C607 K10P
R607 56K
C608 K10P
R608 56K
R621 68
R622 68
R610 47
L602 0.73uH
L601 0.73uH
R609 47
R611 10
C612 J0.047
C611 J0.047
R612 10
R615 180K
R616 150K
C605 63V33
C606 63V33
C622 100V10
C621 100V10
D624 MA167TA
D623 MA167TA
D622 MA167TA
D621 MA167TA
D628 MA167TA
D627 MA167TA
D626 MA167TA
D625 MA167TA
IC602
RSN36S5-P
POWER AMP
C659 K220P
C660 K220P
C657 K10P
R657 56K
C658 K10P
R658 56K
R671 68
R672 68
R660 47
L652 0.73uH
L651 0.73uH
R659 47
C661 J0.047
R662 10
R661 10
C662 J0.047
R634 4.7K
C639 K1200P
C640 K1200P
R632 4.7K
R631 12K
R633 12K
C655 63V33
C656 63V33
C672 100V10
C671 100V10
D634 MA167TA
D633 MA167TA
D632 MA167TA
D631 MA167TA
D638 MA167TA
D637 MA167TA
D636 MA167TA
D635 MA167TA


RL601
R6
L6
D604
RVD1SS133TA
R635
150
RL602
R636
150
D607
RVD1SS133TA
SPK B
SPK A
RL604
W4
SPK V
D655
RVD1SS133TA
R676
150
RL603
C5
S5
SPK C
D654
RVD1SS133TA
R679
150
R665
180K
R666
150K
R791
22K
R792
22K
C691
K1000P
C692
K1000P
C693
K1000P
C694
K1000P
R793
22K
R794
22K
R796
22K
R797
6.8K
R798
22K
R795
22K
JK601
C631
Z0.022
C632
Z0.022
C633
Z0.022
L CH
R CH
L CH
A
FRONT SPEAKER
B
JK602
C634
Z0.022
C641
Z0.022
C637
Z0.022
R CH
SUB WOOFER SPEAKER
CENTRE SPAKER
E601
C701
Z0.01
JK603
C638
Z0.022
C636
Z0.01
C635
Z0.01
L CH
R CH
SURROUND
SPEAKER

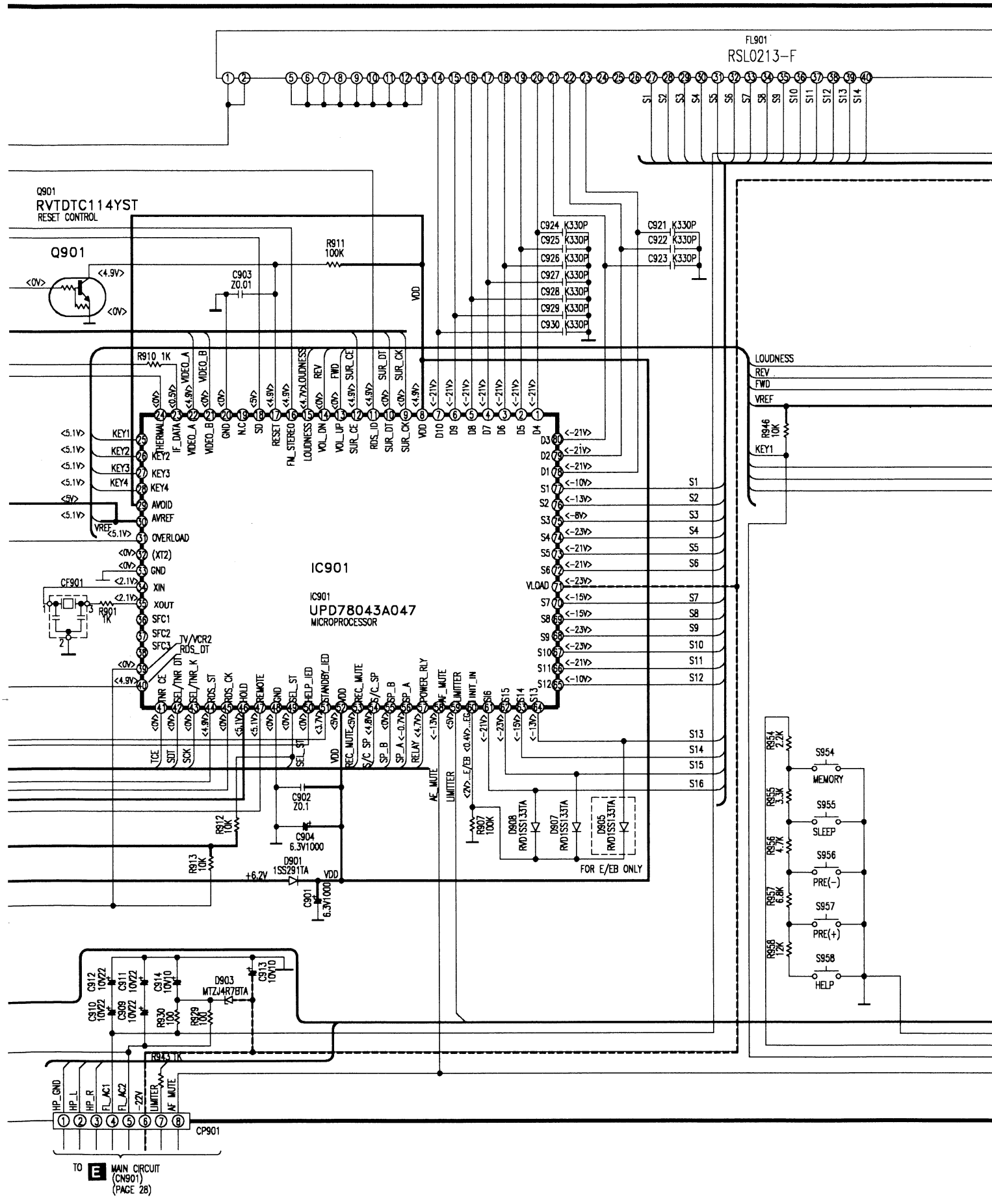
B PANEL CIRCUIT

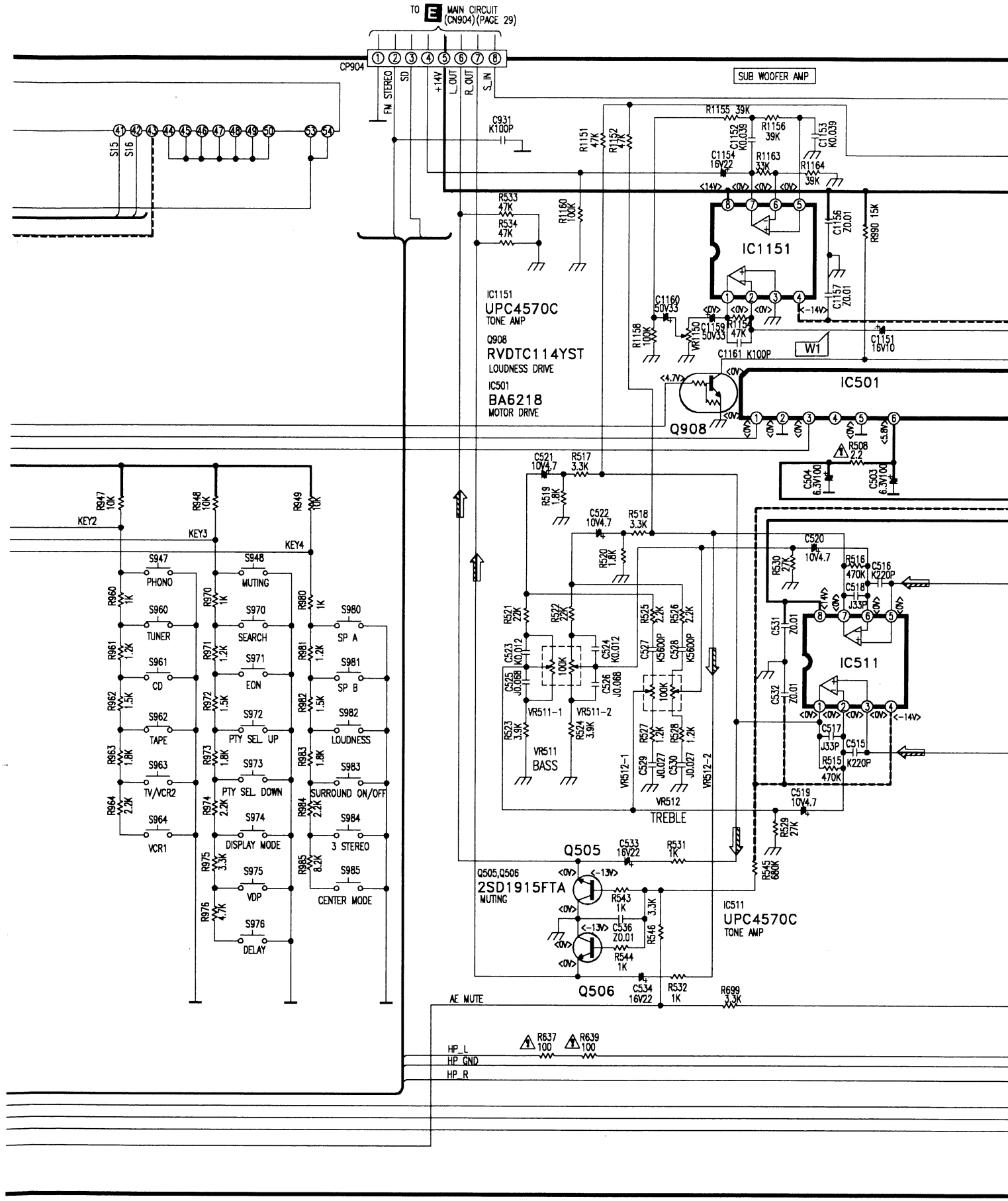


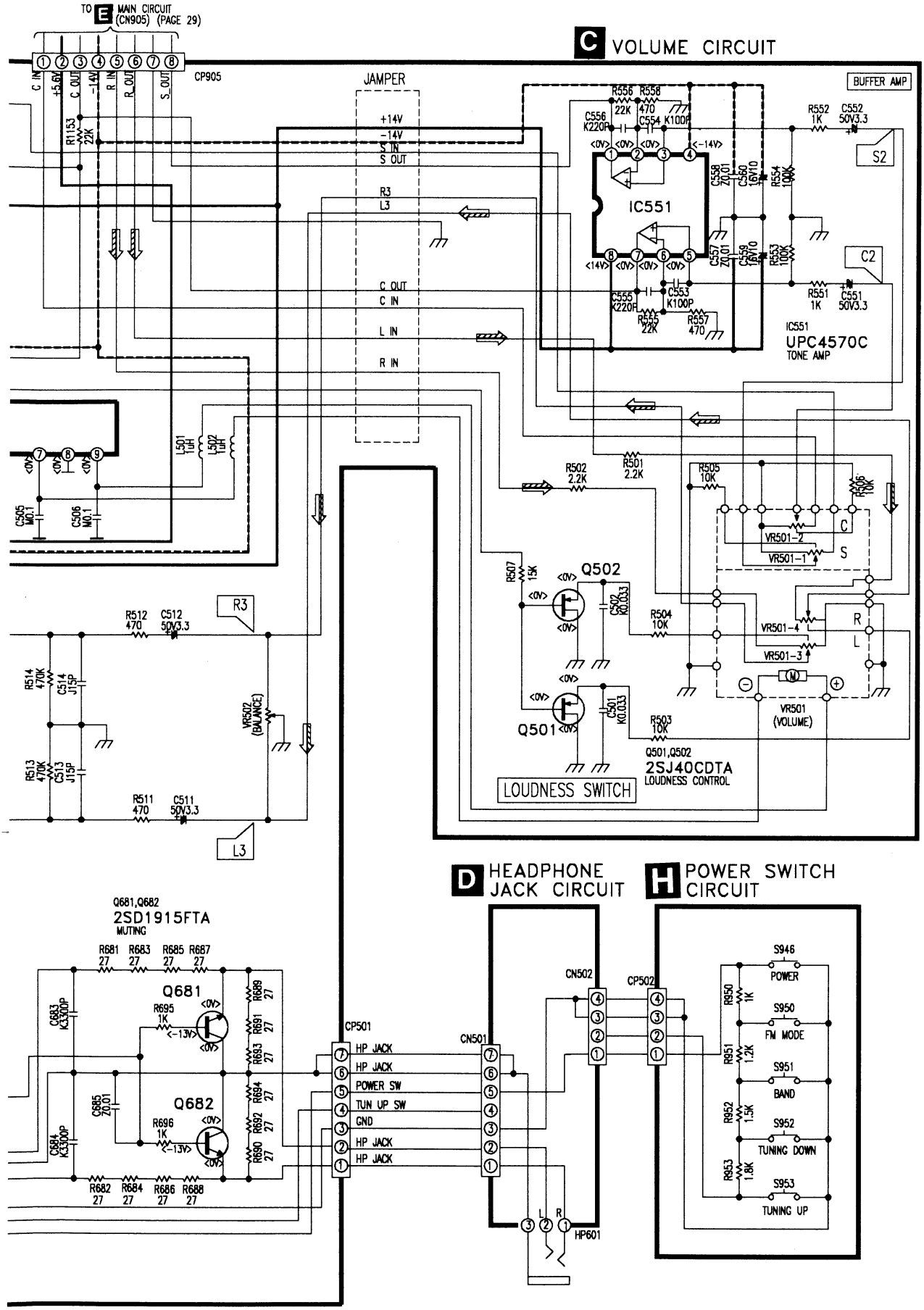
Q902
2SA933SSTA
HOLD

IC902
STK311-010
RDS DECODER

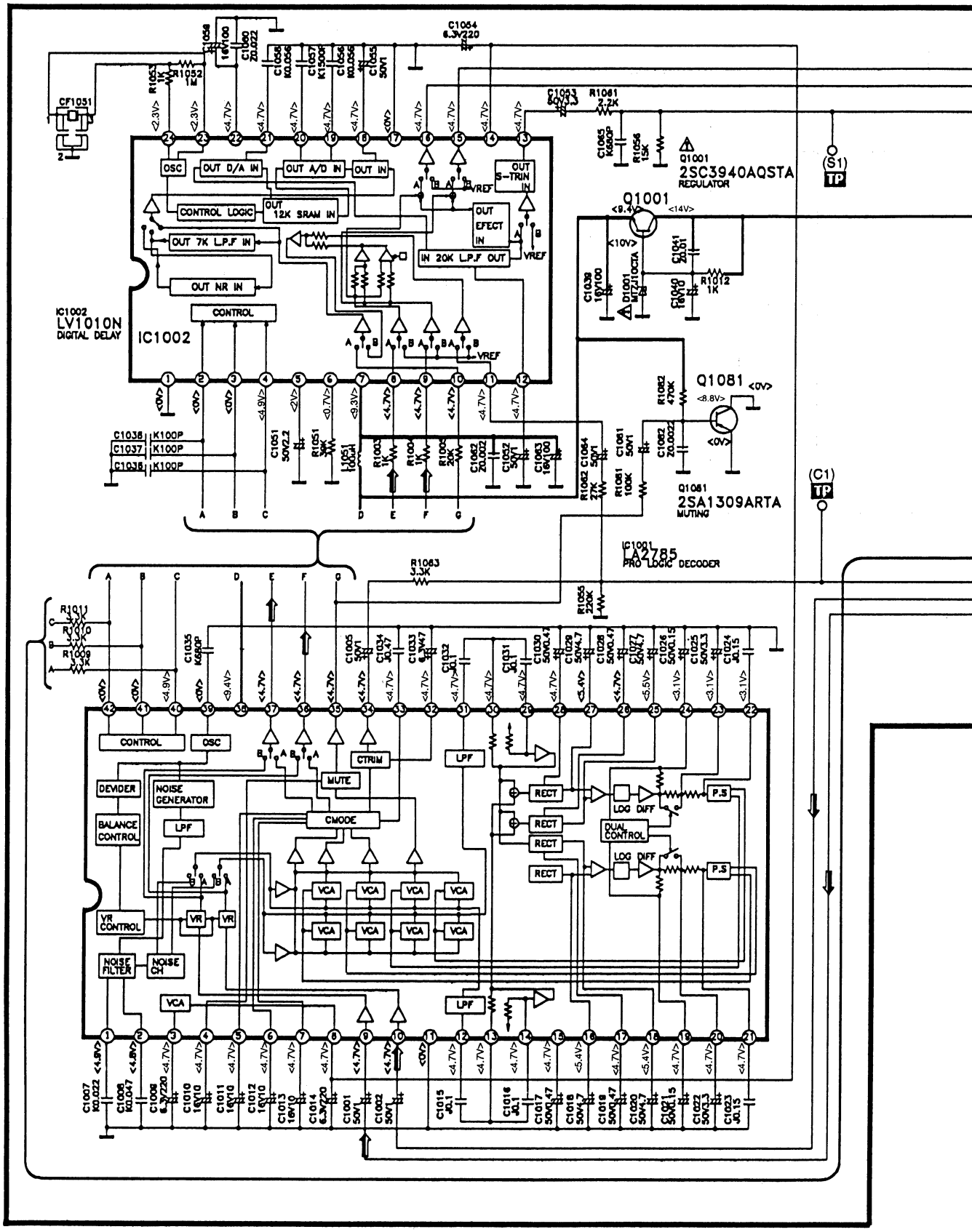
Q907
RVTDTC114YST
RESET CONTROL

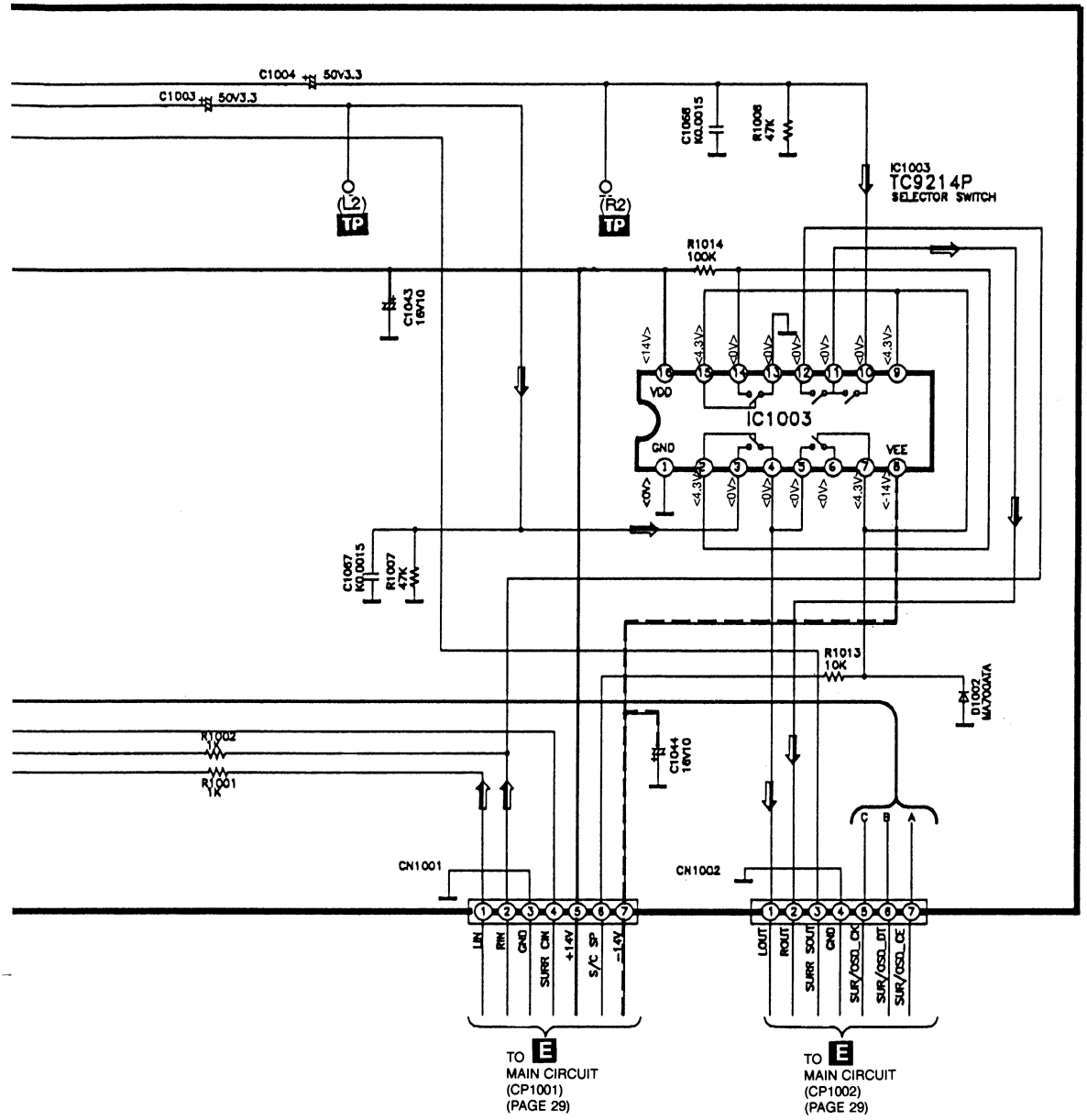

FL901
RSL0213-F
Q901
RVTDTC114YST
RESET CONTROL
IC901
UPD78043A047
MICROPROCESSOR
R911 100K
C903 Z0.01
R910 1K
C924 K330P
C925 K330P
C926 K330P
C927 K330P
C928 K330P
C929 K330P
C930 K330P
C921 K330P
C922 K330P
C923 K330P
LOUDNESS
REV
FWD
VREF
R946 10K
KEY1
CF901
R901 1K
C902 Z0.1
C904 6.3V1000
C901 6.3V1000
R912 10K
R913 10K
D901 1SS291TA
+6.2V
VDD
R907 100K
D908 RVD1SS133TA
D907 RVD1SS133TA
D905 RVD1SS133TA
FOR E/EB ONLY
R954 2.2K
R955 3.3K
R956 4.7K
R957 6.8K
R958 12K
S954
MEMORY
S955
SLEEP
S956
PRE(-)
S957
PRE(+)
S958
HELP
C912 10V22
C911 10V22
C914 10V10
C913 10V10
C910 10V22
C909 10V22
D903 MTZJ4R7BTA
R930 100
R929 100
R943 1K
HP_GND
HP_L
HP_R
FL_AC1
FL_AC2
-22V
LIMITER
AF MUTE
CP901
TO E MAIN CIRCUIT (CN901) (PAGE 28)

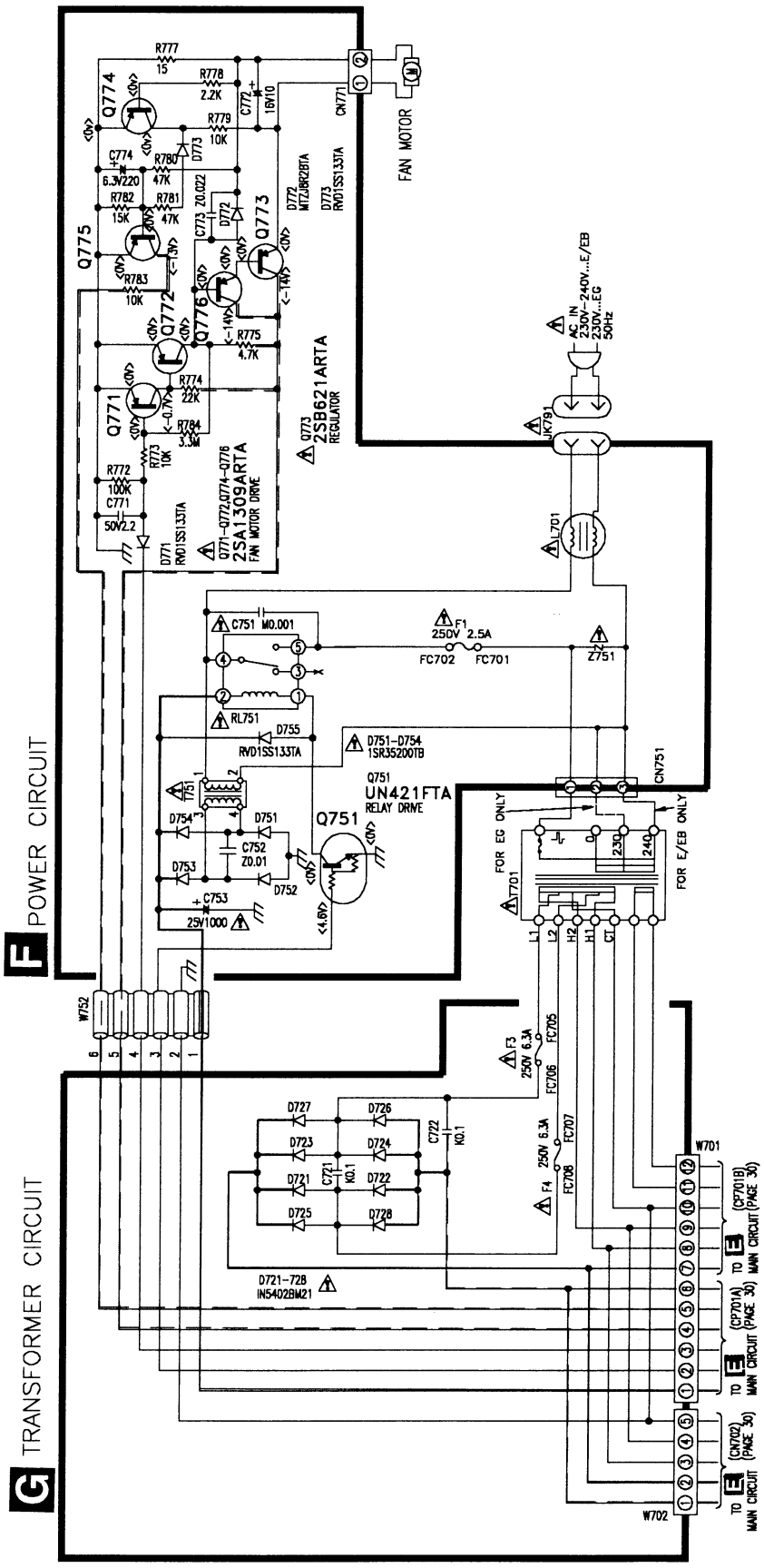

TO E MAIN CIRCUIT (CN904) (PAGE 29)
CP904
FM STEREO
SD
+14V
L_OUT
R_OUT
S_IN
SUB WOOFER AMP
IC1151
UPC4570C
TONE AMP
Q908
RVDTC114YST
LOUDNESS DRIVE
IC501
BA6218
MOTOR DRIVE
IC511
UPC4570C
TONE AMP
Q505,Q506
2SD1915FTA
MUTING
VR511
BASS
VR512
TREBLE
KEY2
KEY3
KEY4
PHONO
TUNER
CD
TAPE
TV/VCR2
VCR1
MUTING
SEARCH
EON
PTY SEL. UP
PTY SEL. DOWN
DISPLAY MODE
VDP
DELAY
SP A
SP B
LOUDNESS
SURROUND ON/OFF
3 STEREO
CENTER MODE
AE MUTE
HP_L
HP_GND
HP_R


TO E MAIN CIRCUIT (CN905) (PAGE 29)
CP905
C VOLUME CIRCUIT
JAMPER
BUFFER AMP
IC551
UPC4570C
TONE AMP
Q502
Q501
Q501,Q502
2SJ40CDTA
LOUDNESS CONTROL
LOUDNESS SWITCH
VR501 (VOLUME)
VR501-1
VR501-2
VR501-3
VR501-4
VR502 (BALANCE)
D HEADPHONE JACK CIRCUIT
H POWER SWITCH CIRCUIT
Q681,Q682
2SD1915FTA
MUTING
Q681
Q682
CP501
CN501
CN502
CP502
HP JACK
POWER SW
TUN UP SW
GND
HP601
S946
POWER
S950
FM MODE
S951
BAND
S952
TUNING DOWN
S953
TUNING UP

J PRO LOGIC CIRCUIT

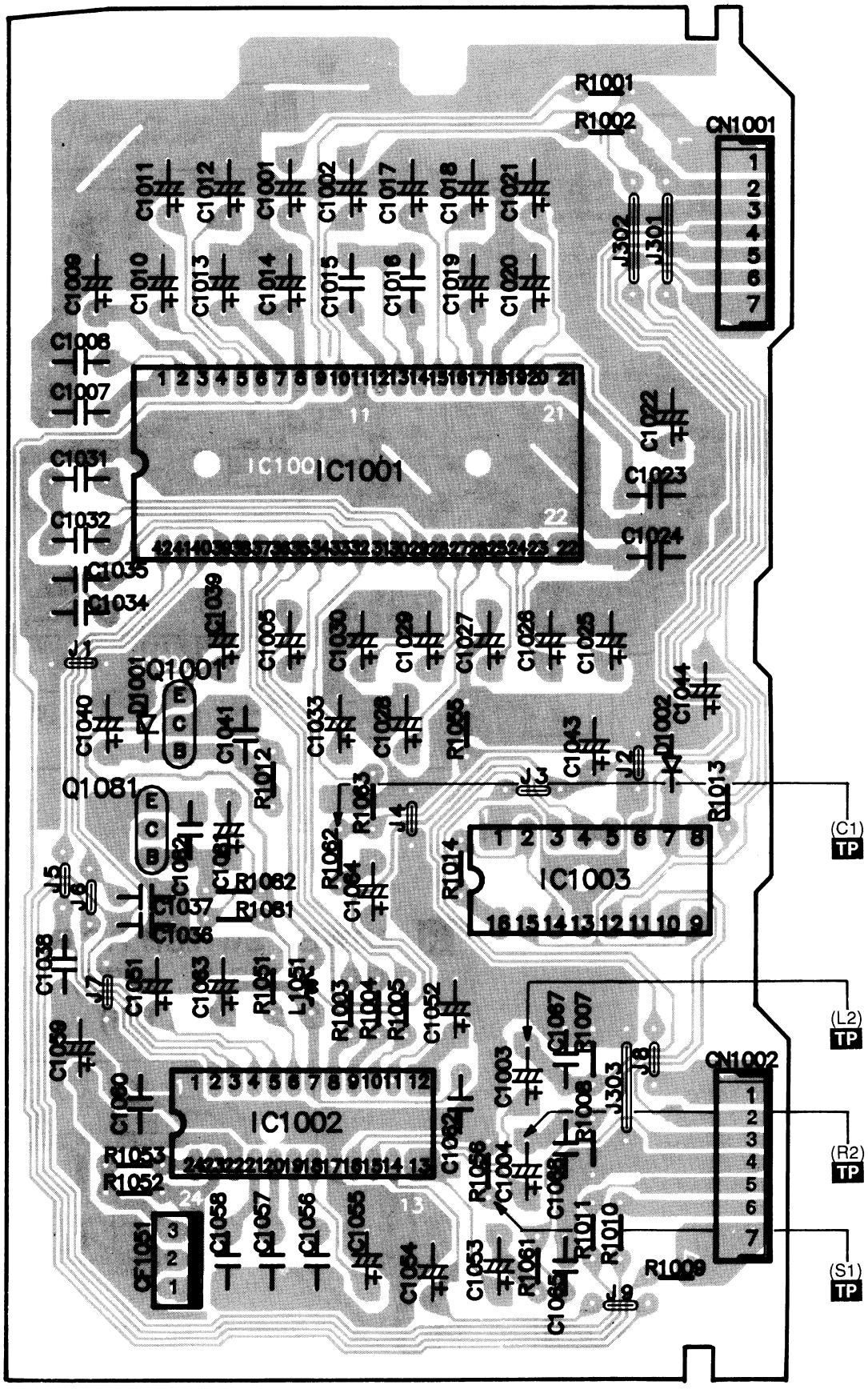



C1004 50V3.3
C1003 50V3.3
C1065 KQ.0015
R1006 47K
IC1003
TC9214P
SELECTOR SWITCH
(L2)
TP
(R2)
TP
R1014 100K
C1043 16V10
VDD
IC1003
GND
VEE
C1067 KQ.0015
R1007 47K
R1013 10K
D1002 MA700(A)TA
R1002
R1001
C1044 16V10
C B A
CN1001
CN1002
LIN RIN GND SURR CH +14V S/C SP -14V
LOUT ROUT SURR SOUT GND SUR/OSD_CK SUR/OSD_DT SUR/OSD_CE
TO E MAIN CIRCUIT (CP1001) (PAGE 29)
TO E MAIN CIRCUIT (CP1002) (PAGE 29)

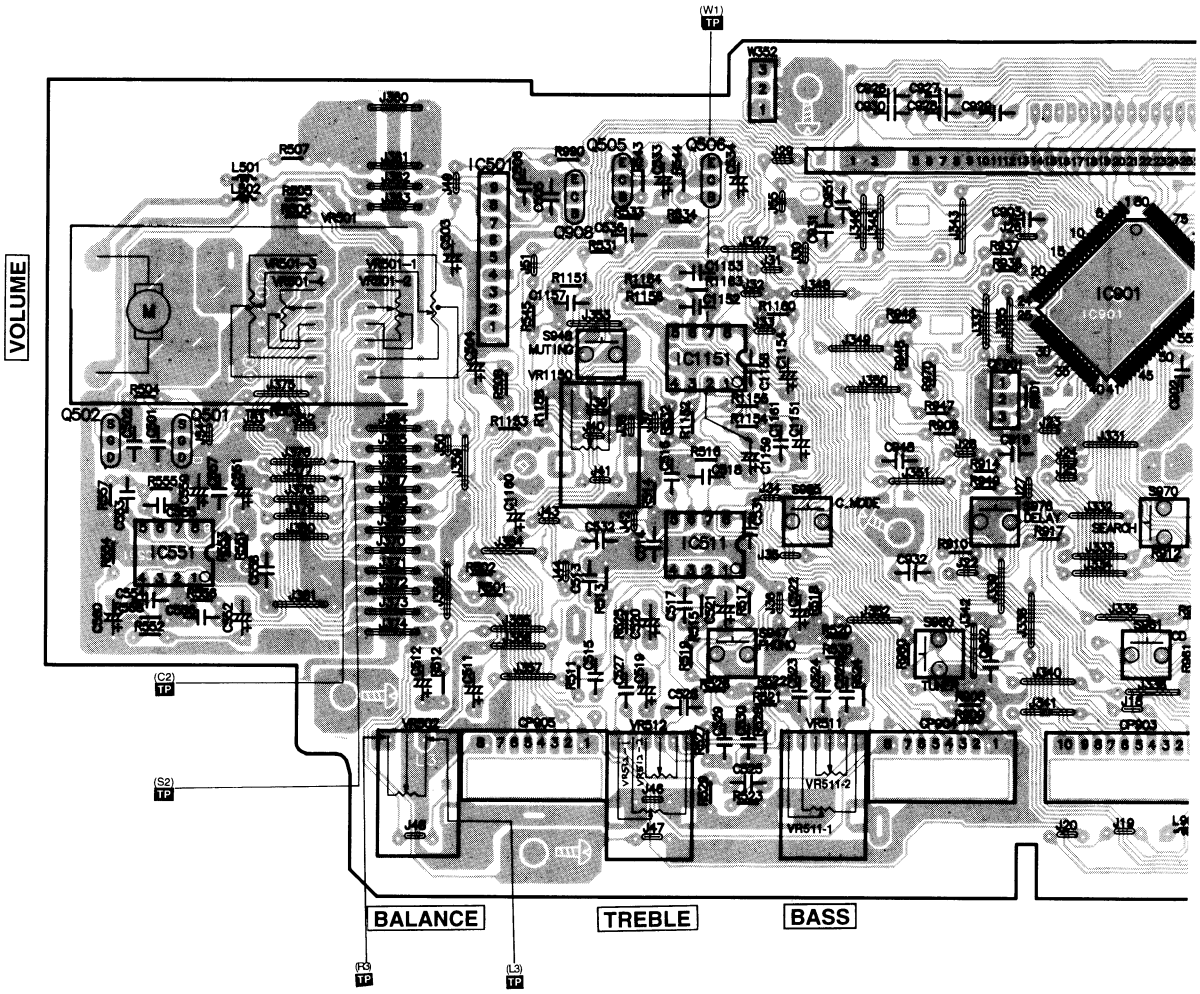

F POWER CIRCUIT
G TRANSFORMER CIRCUIT
FAN MOTOR
CN771
Q773
2SB621ARTA
REGULATOR
Q771-Q772,Q774-Q776
2SA1309ARTA
FAN MOTOR DRIVE
AC IN
230V~240V...E/EB
230V...EG
50Hz
JK791
L701
F1
250V 2.5A
FC702
FC701
Z751
C751 M0.001
RL751
D755
RVD1SS133TA
D751-D754
1SR35200TB
Q751
UN421FTA
RELAY DRIVE
CN751
FOR EG ONLY
FOR E/EB ONLY
T751
W752
F3
250V 6.3A
FC705
FC706
F4
FC707
FC708
W701
W702
D721-728
IN5402BM21
TO MAIN CIRCUIT (CP7018)
TO MAIN CIRCUIT (CP701A) (PAGE 30)
TO MAIN CIRCUIT (CN702) (PAGE 30)

■ Printed Circuit Board

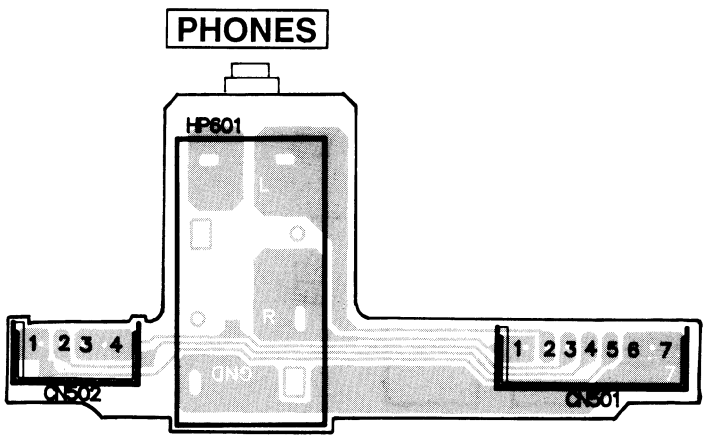
J PRO LOGIC P.C.B. (REP2241A-T)



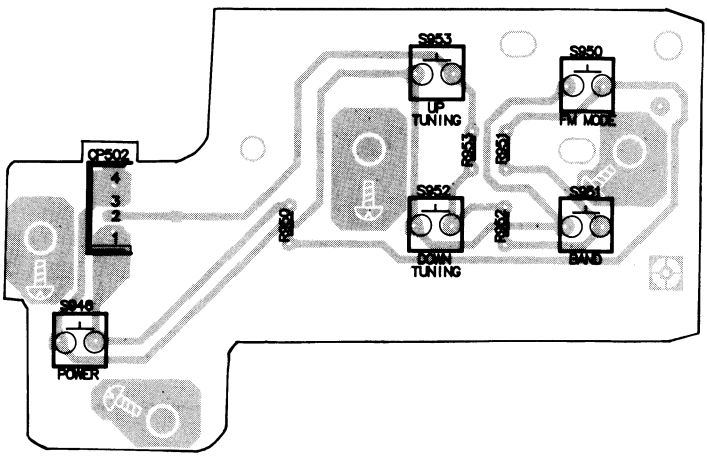
C VOLUME P.C.B. (REP2323B-S .. E/EB) (REP2323C-S .. EG)



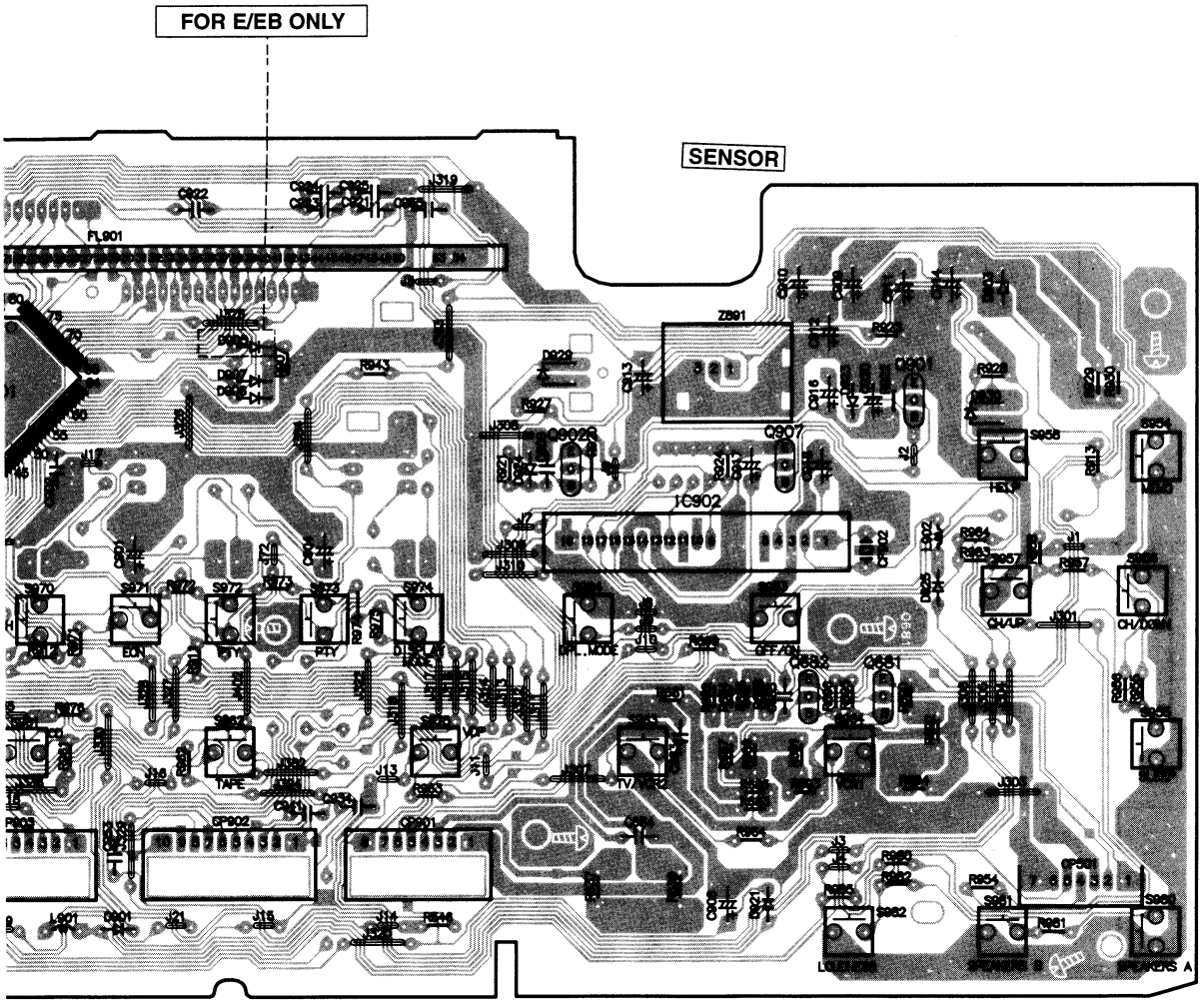
D HEADPHONE JACK P.C.B. (REP2323B-S .. E/EB) (REP2323C-S .. EG)



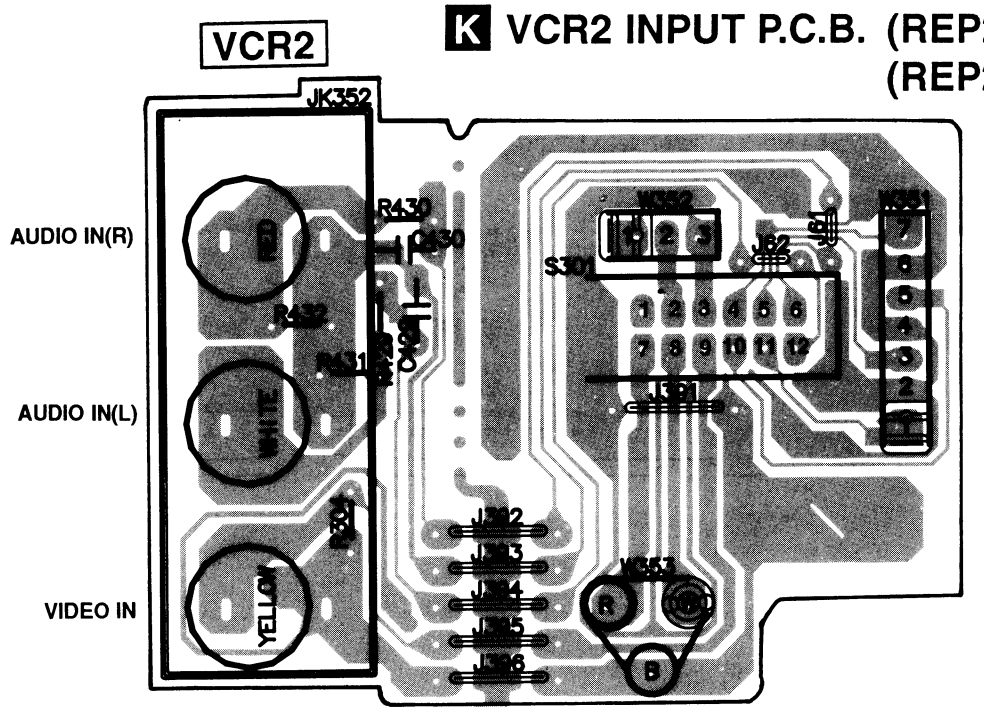
H POWER SWITCH P.C.B. (REP2323B-S .. E/EB) (REP2323C-S .. EG)



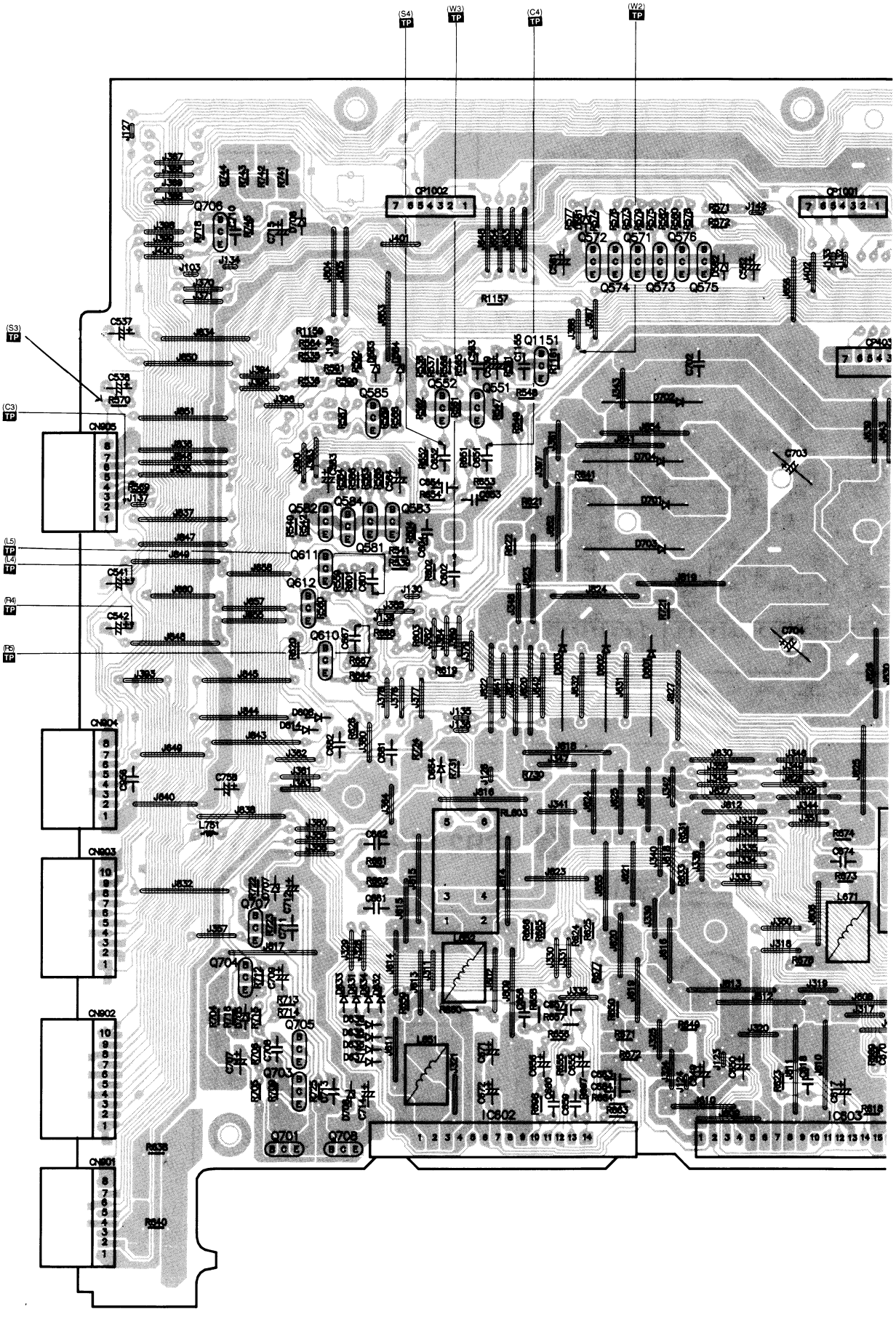
B PANEL P.C.B. (REP2323B-S .. E/EB)
(REP2323C-S .. EG)

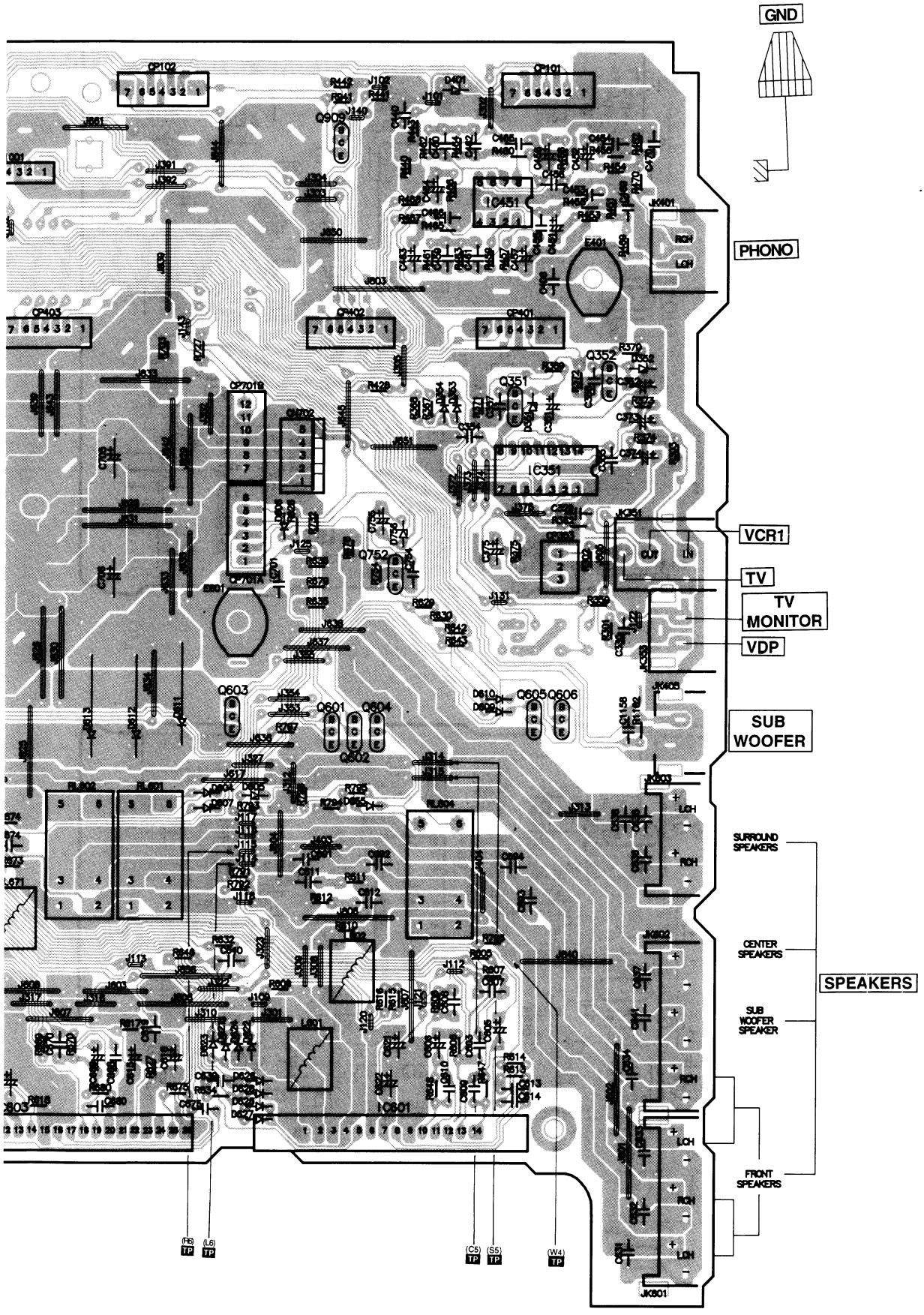


K VCR2 INPUT P.C.B. (REP2323B-S ... E/EB)
(REP2323C-S ... EG)

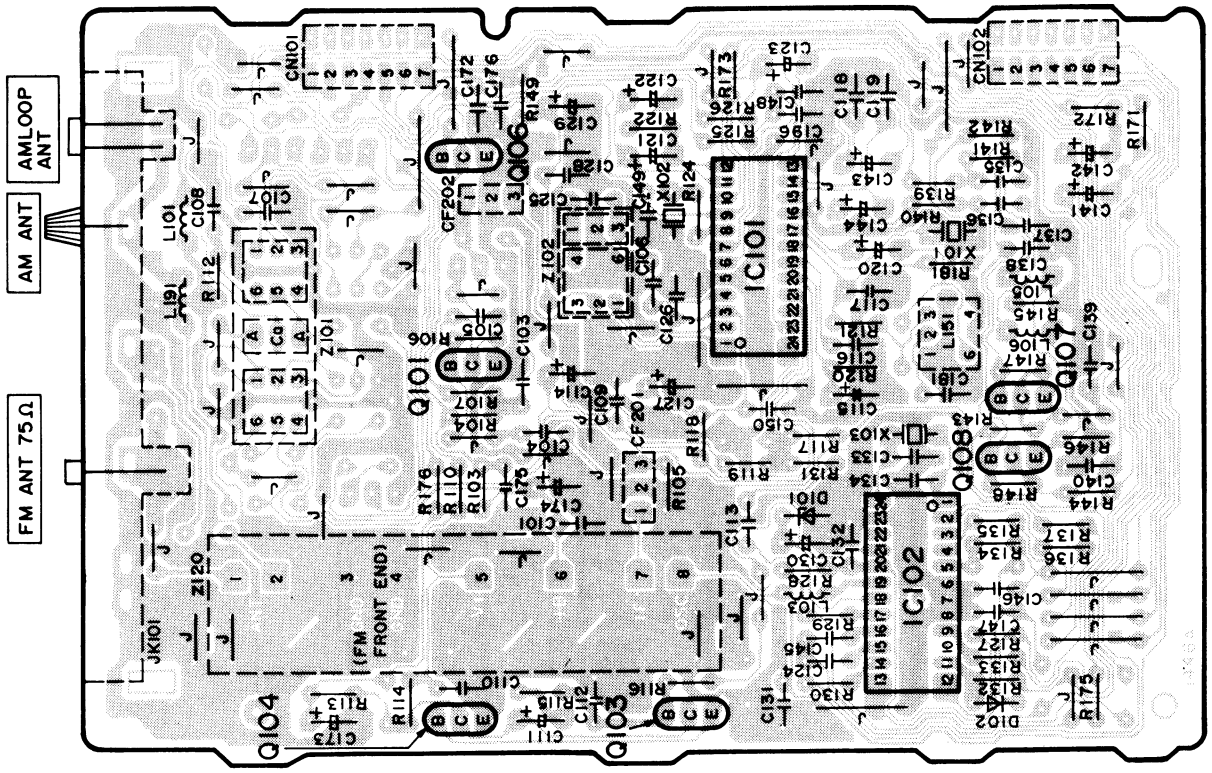


E MAIN P.C.B. (REP2322B-M)

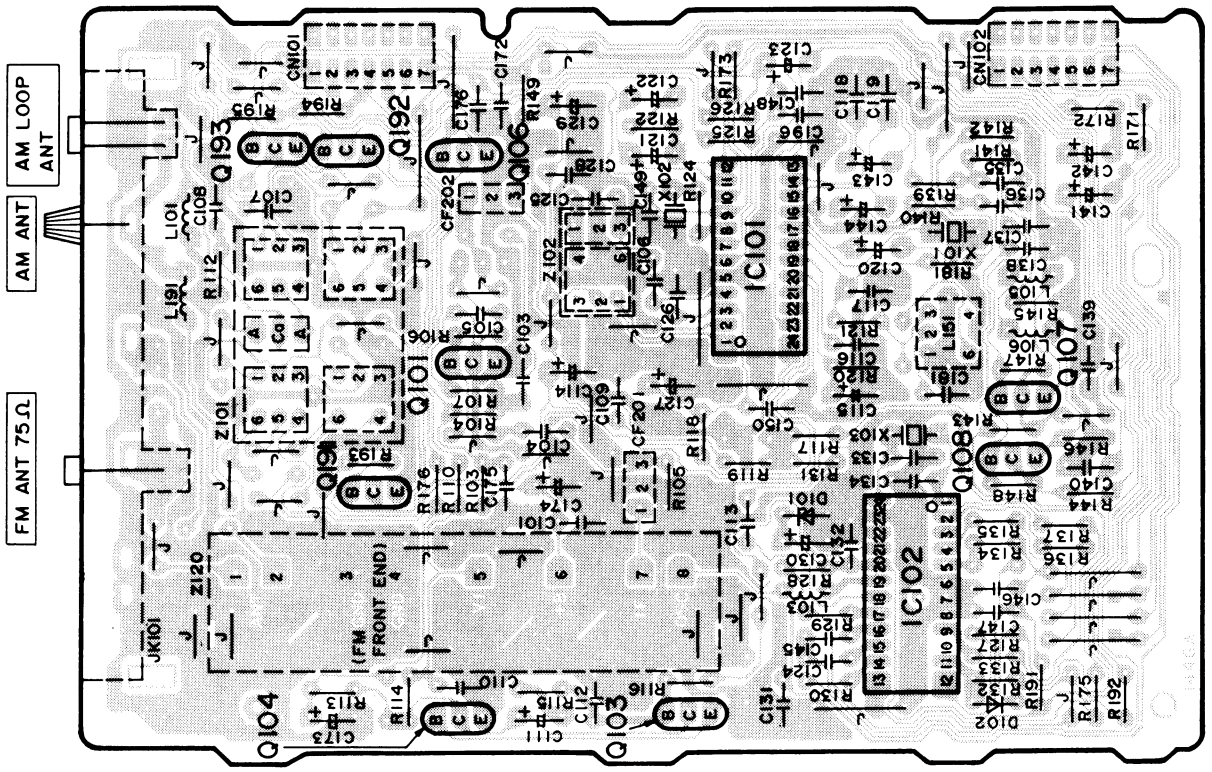



GND
PHONO
VCR1
TV
TV MONITOR
VDP
SUB WOOFER
SURROUND SPEAKERS
CENTER SPEAKERS
SUB WOOFER SPEAKER
FRONT SPEAKERS
SPEAKERS
CP102
CP101
CP405
CP402
CP401
CP701B
CP701A
CN702
IC451
IC351
IC801
Q909
Q352
Q351
Q752
Q603
Q601
Q604
Q502
Q605
Q606
JK401
JK251
JK403
JK603
JK602
JK801
RL602
RL601
RL604
L801
E401
RCH
LCH
OUT
IN
(R6) TP
(L6) TP
(C5) TP
(S5) TP
(W4) TP

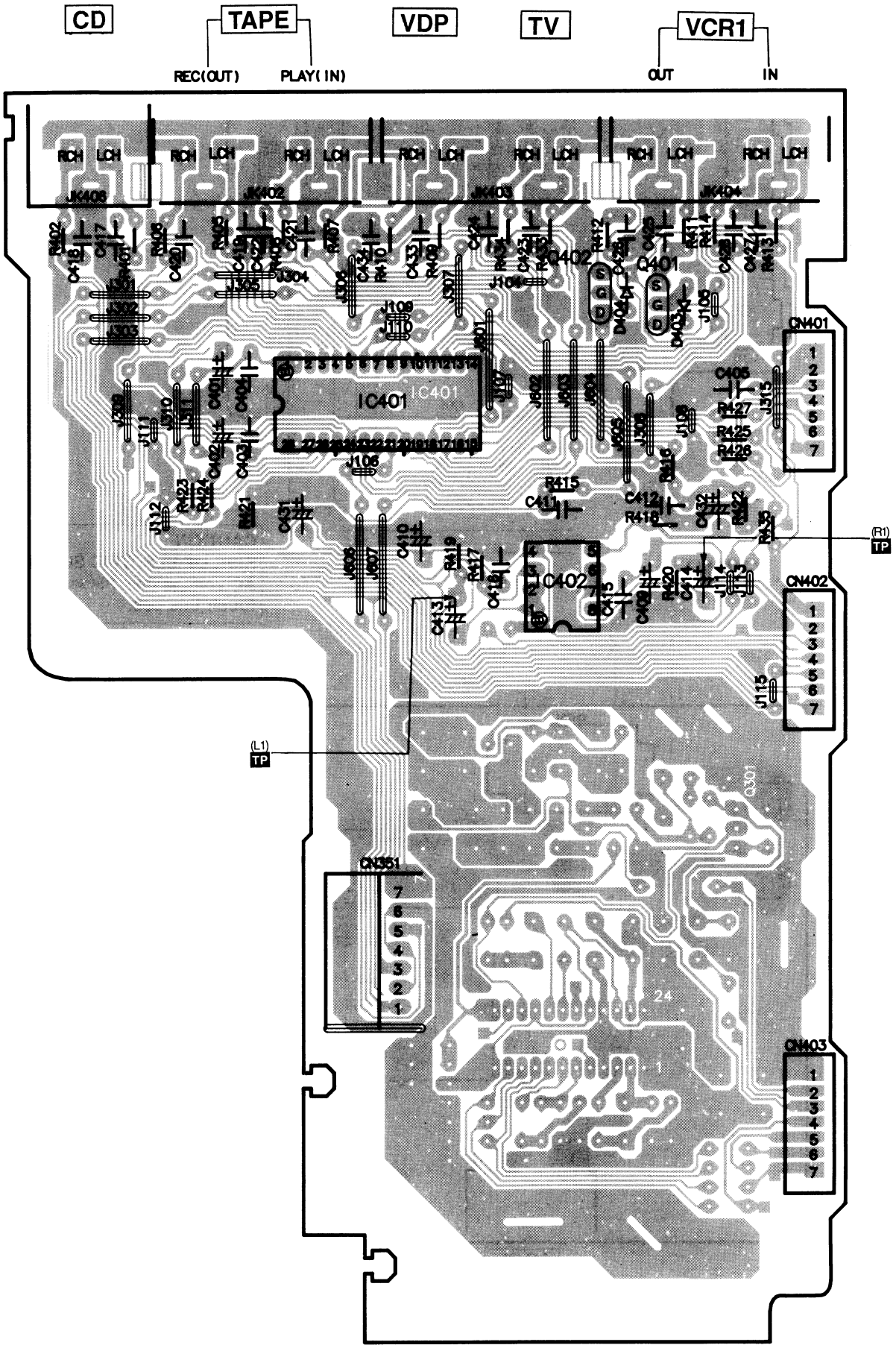
A TUNER P.C.B. (REP2158A-T .. EG)



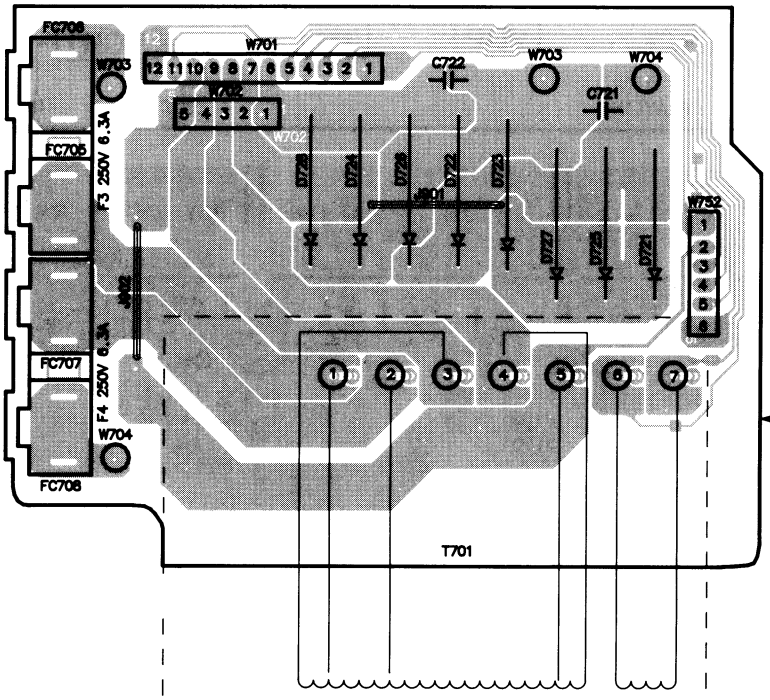
A TUNER P.C.B. (REP2158B-T .. E\EB)



I IN/OUT TERMINAL P.C.B. (REP2378A-P .. E/EB)
(REP2378B-P .. EG)

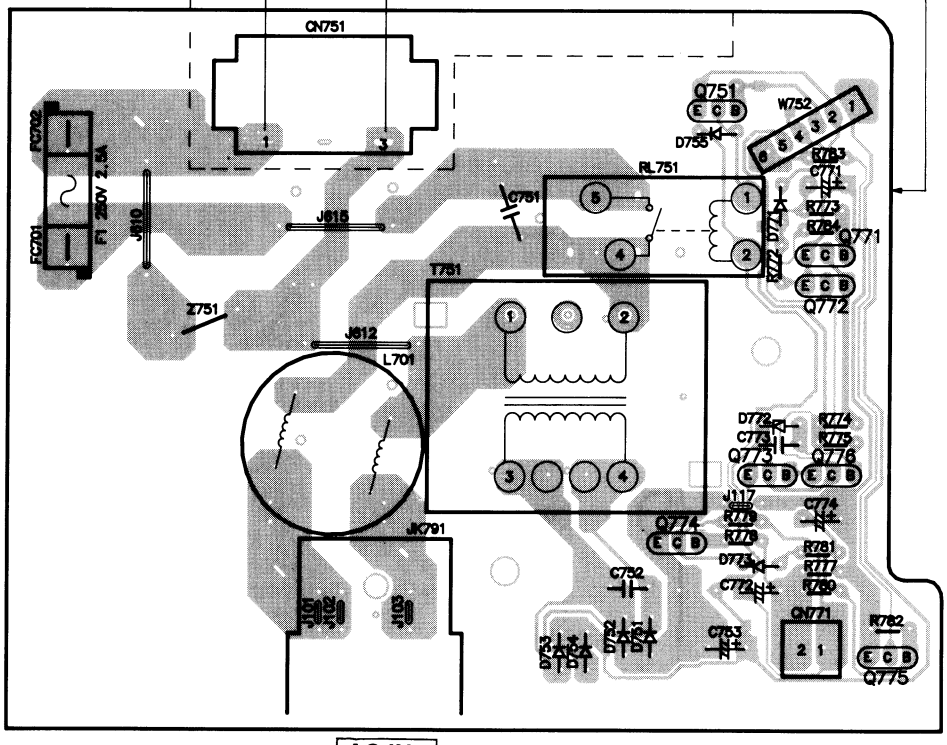


G TRANSFORMER P.C.B. (REP2378A-P .. E/EB)



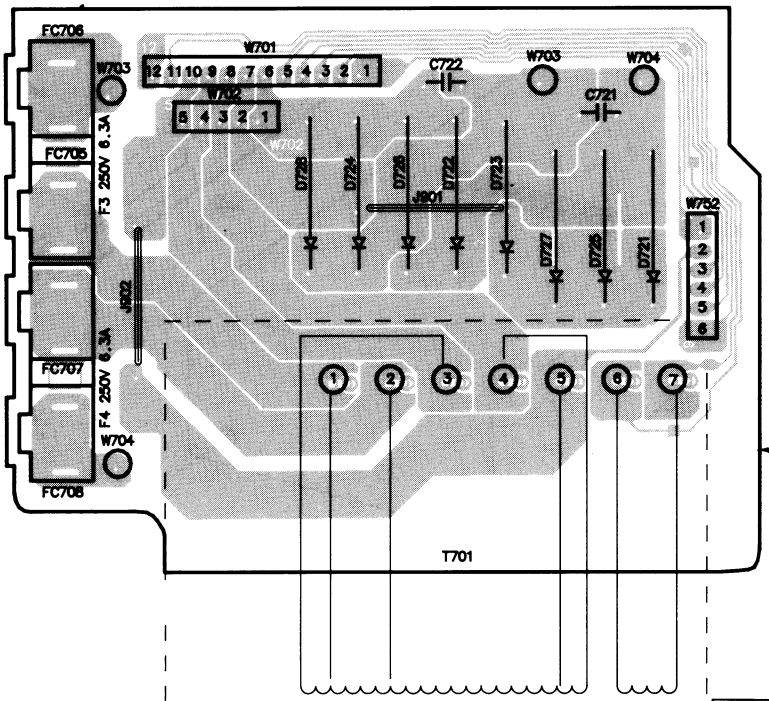
F POWER P.C.B. (REP2378A-P .. E/EB)

CAUTION
RISK OF ELECTRIC SHOCK
AC voltage line. Please do not touch this pcb.



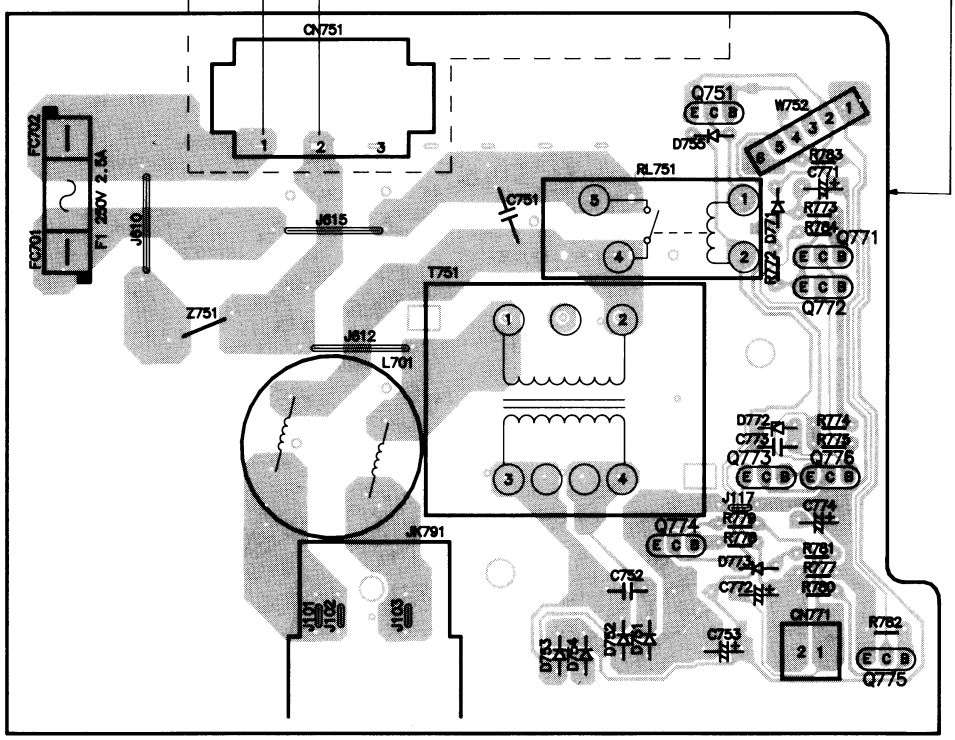
AC IN ~
230V~240V
...E/EB
50Hz

G TRANSFORMER P.C.B. (REP2378B-P .. EG)



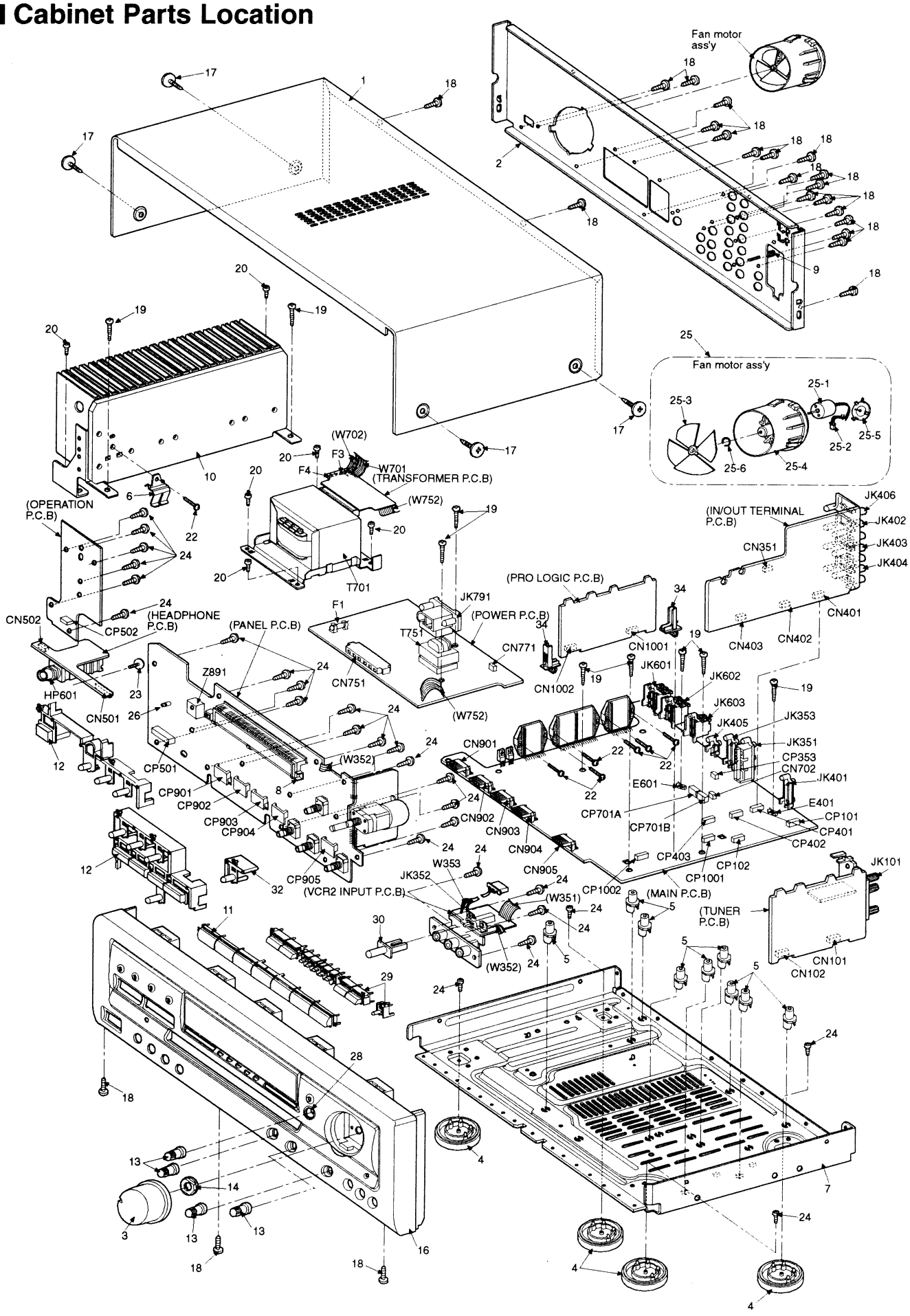
F POWER P.C.B. (REP2378B-P .. EG)

CAUTION
RISK OF ELECTRIC SHOCK
AC voltage line. Please do not touch this pcb.



AC IN ~
230V
...EG
50Hz

■ Cabinet Parts Location



■ Replacement Parts List

Notes: • Important safety notice :
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
• The parenthesized in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indication can be used for all areas.
• [M] in Remarks column indicates parts that are supplied by **MESA**.
• [MAV] in Remarks column indicates parts that are supplied by **MAV**.

Ref No	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RKM0325A-K	CABINET (3.25U)	[MAV]
2	RGR0239B-A1	REAR PANEL	[MAV](E)
2	RGR0239B-B	REAR PANEL	[MAV](EG)
2	RGR0239B-C	REAR PANEL	[MAV](EB)
3	RGW0243A-K	VOLUME KNOB	[MAV]
4	RKA0079-A	FOOT	[MAV]
5	RKQ0089	PCB HOLDER	
6	RMC0158-S	TR FIXTURE	[M]
7	RMK0320	BOTTOM CHASSIS	[MAV]
8	RMN0372	FL HOLDER	[MAV]
9	SNE2123	EARTH TERMINAL	
10	RXX0171	HEAT SINK UNIT	[MAV]
11	RGU1389-K	SELECTOR BUTTON	[MAV]
12	RGU1350C-K	MODE BUTTON	
13	RGW0244-K	BASS TREBLE KNOB	[MAV]
14	RHN90001	M9 NUT	
16	RFKGAEX700EK	FRONT PANEL ASS'Y	[MAV]
17	SNE2129-1	SCREW (CABINET)	
18	XTBS3+8JFZ1	SCREW (REAR PANEL)	
19	XTB3+20JFZ	SCREW (MAIN PCB)	
20	XTB3+8FFZ	SCREW(TRNFM/H. SINK)	
22	XTW3+15T	SCREW (HIC/FIXTURE)	
23	RHD26016	SCREW (H. PHONES)	
24	XTBS26+10J	SCREW(FRONT PANEL)	
25	RYQ0173-K	FAN UNIT	[MAV]
25-1	MDN-4RB4MRC	MOTOR	
25-2	REX0811	CONNECTOR UNIT	[MAV]
25-3	SHE232	64MM PROPELLER	
25-4	SHE233-1	FAN CASE	
25-5	SHE234	FAN CASE COVER	
25-6	SUS271	MOTOR SPRING	
26	RMN0313	LED SUPPORT	
28	RGK0806-N	VOLUME RING	[MAV]
29	RGU1352G-K	DOLBY BUTTON	[MAV]
30	RGU1390-K	VCR2 BUTTON	[MAV]
32	RGU1398-Q	HELP BUTTON	[MAV]
34	RMN0203	PCB HOLDER	

Ref No	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUITS	
IC101	LA1832A	IC, IF/MPX	
IC102	LC7218	IC, PLL	
IC351	NJM2279D	IC,VIDEO SELECTOR SW	
IC401	TC9163N	IC, SELECTOR	
IC402	M5218AP	IC, BUFFER AMP	
IC451	AN6558-F	IC, PHONO EQ AMP	[M]
IC501	BA6218	IC, MOTOR DRIVER	
IC511	UPC4570C	IC, TONE CONTROL	
IC551	UPC4570C	IC, TONE CONTROL	
IC601	RSN36S5-P	IC, SLAVE HIC	[MAV]⚠
IC602	RSN36S5-P	IC, SLAVE HIC	[MAV]⚠
IC603	RSN33M5-P	IC, MASTER HIC	[MAV]⚠
IC901	UPD78043A047	IC,MICROPROCESSOR	[MAV]
IC902	STK311-010	IC, RDS DECODER	[M]
IC1001	LA2785	IC,PRO LOGIC DECODER	
IC1002	LV1010N	IC, DIGITAL DELAY	
IC1003	TC9214P	IC, SELECTOR SWITCH	
IC1151	UPC4570C	IC, TONE CONTROL	
		TRANSISTORS	
Q101	2SC2787LTA	TRANSISTOR	
Q103	2SC2785FETA	TRANSISTOR	
Q104	2SC2785FETA	TRANSISTOR	
Q106	UN411FTA	TRANSISTOR	
Q107	2SC3311ARTA	TRANSISTOR	
Q108	2SC3311ARTA	TRANSISTOR	
Q191	2SC3311ARTA	TRANSISTOR	(E, EB)
Q192	2SC3311ARTA	TRANSISTOR	(E, EB)
Q193	2SC3311ARTA	TRANSISTOR	(E, EB)
Q351	2SD592AQSTA	TRANSISTOR	[MAV]⚠
Q352	2SB621ARTA	TRANSISTOR	⚠
Q401	2SK381CTA	TRANSISTOR	
Q402	2SK381CTA	TRANSISTOR	
Q501	2SJ40CDTA	TRANSISTOR	
Q502	2SJ40CDTA	TRANSISTOR	
Q505	2SD1915FTA	TRANSISTOR	

Ref No	Part No.	Part Name & Description	Remarks
Q506	2SD1915FTA	TRANSISTOR	
Q551	2SD1915FTA	TRANSISTOR	
Q552	2SD1915FTA	TRANSISTOR	
Q571	2SA1309ARTA	TRANSISTOR	
Q572	2SA1309ARTA	TRANSISTOR	
Q573	2SC3311ARTA	TRANSISTOR	
Q574	2SC3311ARTA	TRANSISTOR	
Q575	2SA1309ARTA	TRANSISTOR	
Q576	2SC3311ARTA	TRANSISTOR	
Q581	2SA1309ARTA	TRANSISTOR	
Q582	2SA1309ARTA	TRANSISTOR	
Q583	2SC3311ARTA	TRANSISTOR	
Q584	2SC3311ARTA	TRANSISTOR	
Q585	2SA1309ARTA	TRANSISTOR	
Q601	UN4119TA	TRANSISTOR	
Q602	UN4119TA	TRANSISTOR	
Q603	UN4119TA	TRANSISTOR	
Q604	UN4119TA	TRANSISTOR	
Q605	RVTDTC114EST	TRANSISTOR	
Q606	RVTDTA114EST	TRANSISTOR	
Q610	2SC3311ARTA	TRANSISTOR	
Q611	2SC3311ARTA	TRANSISTOR	
Q612	2SC3311ARTA	TRANSISTOR	
Q681	2SD1915FTA	TRANSISTOR	
Q682	2SD1915FTA	TRANSISTOR	
Q701	2SD2374PQAU	TRANSISTOR	⚠
Q703	2SC3311ARTA	TRANSISTOR	⚠
Q704	2SC3311ARTA	TRANSISTOR	⚠
Q705	2SC3311ARTA	TRANSISTOR	⚠
Q706	2SC3940AQSTA	TRANSISTOR	⚠
Q707	2SB621ARTA	TRANSISTOR	⚠
Q708	2SB1548PQAU	TRANSISTOR	⚠
Q751	UN421FTA	TRANSISTOR	
Q752	2SC3940AQSTA	TRANSISTOR	⚠
Q771	2SA1309ARTA	TRANSISTOR	⚠
Q772	2SA1309ARTA	TRANSISTOR	⚠
Q773	2SB621ARTA	TRANSISTOR	⚠
Q774	2SA1309ARTA	TRANSISTOR	⚠
Q775	2SA1309ARTA	TRANSISTOR	⚠

Ref No	Part No.	Part Name & Description	Remarks
Q776	2SA1309ARTA	TRANSISTOR	⚠
Q901	RVTDTC114YST	TRANSISTOR	
Q902	2SA933SSTA	TRANSISTOR	
Q907	RVTDTC114YST	TRANSISTOR	
Q908	RVTDTC114YST	TRANSISTOR	
Q909	2SC3311ARTA	TRANSISTOR	
Q1001	2SC3940AQSTA	TRANSISTOR	
Q1081	2SA1309ARTA	TRANSISTOR	
Q1151	2SD1915FTA	TRANSISTOR	
		DIODES	
D101	MTZJ5R1BTA	DIODE	
D102	MA165TA	DIODE	
D351	MTZJ5R6BTA	DIODE	⚠
D352	MTZJ5R6BTA	DIODE	⚠
D353	RVD1SS133TA	DIODE	
D354	RVD1SS133TA	DIODE	
D401	MTZJ7R5CTA	DIODE	
D403	RVD1SS133TA	DIODE	
D404	RVD1SS133TA	DIODE	
D581	MTZJ3R0ATA	DIODE	[MAV]
D582	MTZJ3R0ATA	DIODE	[MAV]
D583	MTZJ3R0ATA	DIODE	[MAV]
D584	MTZJ3R0ATA	DIODE	[MAV]
D601	SB360L6508	DIODE	
D602	SB360L6508	DIODE	
D603	SB360L6508	DIODE	
D604	RVD1SS133TA	DIODE	
D605	MTZJ6R2BTA	DIODE	
D606	RVD1SS133TA	DIODE	
D607	RVD1SS133TA	DIODE	
D608	RVD1SS133TA	DIODE	
D609	RVD1SS133TA	DIODE	
D610	RVD1SS133TA	DIODE	
D611	SB360L6508	DIODE	
D612	SB360L6508	DIODE	
D613	SB360L6508	DIODE	
D614	RVD1SS133TA	DIODE	
D621	MA167TA	DIODE	
D622	MA167TA	DIODE	
D623	MA167TA	DIODE	
D624	MA167TA	DIODE	
D625	MA167TA	DIODE	
D626	MA167TA	DIODE	
D627	MA167TA	DIODE	
D628	MA167TA	DIODE	
D631	MA167TA	DIODE	

Ref No.	Part No.	Part Name & Description	Remarks
D632	MA167TA	DIODE	
D633	MA167TA	DIODE	
D634	MA167TA	DIODE	
D635	MA167TA	DIODE	
D636	MA167TA	DIODE	
D637	MA167TA	DIODE	
D638	MA167TA	DIODE	
D654	RVD1SS133TA	DIODE	
D655	RVD1SS133TA	DIODE	
D701	P300DLF	DIODE	⚠
D702	P300DLF	DIODE	⚠
D703	P300DLF	DIODE	⚠
D704	P300DLF	DIODE	⚠
D705	MTZJ6R2BTA	DIODE	⚠
D706	MTZJ6R2BTA	DIODE	⚠
D707	MTZJ24DTA	DIODE	⚠
D708	MTZJ15CTA	DIODE	⚠
D721	1N5402BM21	DIODE	⚠
D722	1N5402BM21	DIODE	⚠
D723	1N5402BM21	DIODE	⚠
D724	1N5402BM21	DIODE	⚠
D725	1N5402BM21	DIODE	⚠
D726	1N5402BM21	DIODE	⚠
D727	1N5402BM21	DIODE	⚠
D728	1N5402BM21	DIODE	⚠
D751	1SR35200TB	DIODE	⚠
D752	1SR35200TB	DIODE	⚠
D753	1SR35200TB	DIODE	⚠
D754	1SR35200TB	DIODE	⚠
D755	RVD1SS133TA	DIODE	
D756	MTZJ6R8BTA	DIODE	⚠
D771	RVD1SS133TA	DIODE	
D772	MTZJ8R2BTA	DIODE	[M]
D773	RVD1SS133TA	DIODE	
D901	1SS291TA	DIODE	
D903	MTZJ4R7BTA	DIODE	
D905	RVD1SS133TA	DIODE	(E, EB)
D907	RVD1SS133TA	DIODE	
D908	RVD1SS133TA	DIODE	
D921	RVD1SS133TA	DIODE	
D923	RVD1SS133TA	DIODE	
D924	MTZJ3R9ATA	DIODE	
D925	MA723TA	DIODE	
D929	LN846RPH	DIODE	
D930	LN41YCPHL	DIODE	
D1001	MTZJ10CTA	DIODE	
D1002	MA700ATA	DIODE	

Ref No	Part No.	Part Name & Description	Remarks
		VARIABLE RESISTORS	
VR501	EUWMR0026B15	VR, VOLUME	
VR502	EVJ02QF01G15	VR, BALANCE	
VR511	EVJYA1F01C15	VR, BASS	
VR512	EVJYA1F01C15	VR, TREBLE	
VR1150	EVJ06LF06A15	VR, VAR. RESISTOR	[MAV]
		SWITCHES	
S301	RSP2D009-J	SW,TV/VCR2 SELECTOR	
S946	EVQ21405R	SW, POWER	
S947	EVQ21405R	SW, PHONO	
S948	EVQ21405R	SW, MUTING	
S950	EVQ21405R	SW, FM AUTO/MONO	
S951	EVQ21405R	SW, BAND	
S952	EVQ21405R	SW, TUNING DOWN	
S953	EVQ21405R	SW, TUNING UP	
S954	EVQ21405R	SW, MEMO	
S955	EVQ21405R	SW, SLEEP	
S956	EVQ21405R	SW, PRESET DOWN	
S957	EVQ21405R	SW, PRESET UP	
S958	EVQ21405R	SW, HELP	
S960	EVQ21405R	SW, TUNER	
S961	EVQ21405R	SW, CD	
S962	EVQ21405R	SW, TAPE	
S963	EVQ21405R	SW, TV/VCR2	
S964	EVQ21405R	SW, VCR1	
S970	EVQ21405R	SW, SEARCH	
S971	EVQ21405R	SW, EON	
S972	EVQ21405R	SW, PTY SELECT UP	
S973	EVQ21405R	SW, PTY SELECT DOWN	
S974	EVQ21405R	SW, DISPLAY MODE	
S975	EVQ21405R	SW, VDP	
S976	EVQ21405R	SW, DELAY TIME	
S980	EVQ21405R	SW, SPEAKERS A	
S981	EVQ21405R	SW, SPEAKERS B	
S982	EVQ21405R	SW, LOUDNESS	
S983	EVQ21405R	SW, SURROUND OFF/ON	
S984	EVQ21405R	SW, 3 STEREO	
S985	EVQ21405R	SW, CENTER MODE	
		CONNECTORS	
CN101	RJU057W007	CONNECTOR (7P)	
CN102	RJU057W007	CONNECTOR (7P)	
CN351	RJS7T6ZA	7P CONNECTOR	
CN401	RJU100W07	7P CONNECTOR	[MAV]

Ref No	Part No.	Part Name & Description	Remarks
CN402	RJU100W07	7P CONNECTOR	[MAV]
CN403	RJU100W07	7P CONNECTOR	[MAV]
CN501	RJU100W07	7P CONNECTOR	[MAV]
CN502	RJU100W04	SOCKET (4P)	[MAV]
CN702	RJS1A6605	5P TAPING CONNECTOR	
CN751	SJS305-1	CONNECTOR (3P)	
CN771	SJT3213	CONNECTOR (FAN)	
CN901	RJU003K008M1	BOARD IN CONNECTOR	
CN902	RJU003K010M1	10P B/B CONNECTOR	
CN903	RJU003K010M1	10P B/B CONNECTOR	
CN904	RJU003K008M1	BOARD IN CONNECTOR	
CN905	RJU003K008M1	BOARD IN CONNECTOR	
CN1001	RJU100W07	7P CONNECTOR	[MAV]
CN1002	RJU100W07	7P CONNECTOR	[MAV]
CP101	RJT057W007-1	7P CONNECTOR	
CP102	RJT057W007-1	7P CONNECTOR	
CP353	RJP3G4YA	3P CONNECTOR	
CP401	RJT100W07	7P CONNECTOR	[MAV]
CP402	RJT100W07	7P CONNECTOR	[MAV]
CP403	RJT100W07	7P CONNECTOR	[MAV]
CP501	RJT100W07	7P CONNECTOR	[MAV]
CP502	RJT100W04	CONNECTOR (4P)	[MAV]
CP701A	RJT039W06T	CONNECTOR 6P	
CP701B	RJT039W06T	CONNECTOR 6P	
CP901	RJT003K008M1	8P CONNECTOR	
CP902	RJT003K010M1	10P CONNECTOR	
CP903	RJT003K010M1	10P CONNECTOR	
CP904	RJT003K008M1	8P CONNECTOR	
CP905	RJT003K008M1	8P CONNECTOR	
CP1001	RJT100W07	7P CONNECTOR	[MAV]
CP1002	RJT100W07	7P CONNECTOR	[MAV]
		COILS & TRANSFORMERS	
L101	ELESN1R0MA	CHOKE COIL	(EG)
L101	ELESNR68MA	CHOKE COIL	(E, EB)
L103	ELEXTR47MA9	CHOKE COIL	
L105	RLQZB822KT-D	TAPING COIL	
L106	RLQZB822KT-D	TAPING COIL	
L151	SLM1B10-1M	COIL	
L191	ELESNR56MA	CHOKE COIL	(EG)
L191	ELESNR68MA	CHOKE COIL	(E, EB)
L501	RLQZP1R0KT-Y	AXIAL COIL	
L502	RLQZP1R0KT-Y	AXIAL COIL	
L601	RLQYR73M	CHOKE COIL	
L602	RLQYR73M	CHOKE COIL	
L651	RLQYR73M	CHOKE COIL	
L652	RLQYR73M	CHOKE COIL	

Ref No	Part No.	Part Name & Description	Remarks
L671	RLQYR73M	CHOKE COIL	
L701	SLQZ650MH49	AC LINE COIL	⚠
L751	RLQB101JTA-Y	CHOKE COIL	
L901	RLQB101KTA-Y	CHOKE COIL	
L902	RLQZP101KT-Y	AXIAL COIL	
L1051	RLQB101KTA-Y	CHOKE COIL	
T701	RTP1Q5E013-V	POWER TRANSFORMER	[MAV]⚠
T751	RTP1I5E006	POWER TRANSFORMER	⚠
		COMPONENT COMBINATION	
Z101	RLA2Z002M-T	AM ANT. COIL	(EG)
Z101	RLA6Z005M-T	AM ANT/OSC	(E, EB)
Z102	RLI2Z006M-T	AM IFT	
Z120	ENV17290G1R	FM TUNER PACK	
Z751	ERZV10V511CS	ZNR	⚠
Z891	RCDSPS4242N	REMOTE SENSOR	
		CERAMIC FILTERS	
CF201	RLFFETNGD01L	CERAMIC FILTER	
CF202	RLFFETMGD01L	CERAMIC FILTER	
CF901	RVBCST4R00MT	OSCILLATOR	
CF902	RSXZ456KM07M	CERAMIC OSCILLATOR	
CF1051	EF0EC8004T4	CERAMIC OSCILLATOR	
		OSCILLATORS	
X101	RSXZ456KM07M	CERAMIC OSCILLATOR	
X102	RLFDGTD011	FM REZONATOR	
X103	SVQ49U722T-S	CRYSTAC OSCILLIATOR	
		DISPLAY TUBE	
FL901	RSL0213-F	FL DISPLAY	[MAV]
		FUSES	
F1	XBA2C25TB0	FUSE	⚠
F3	XBA2C63TB0	FUSE	⚠
F4	XBA2C63TB0	FUSE	⚠
		FUSE HOLDERS	
FC701	EYF52BC	FUSE HOLDER	
FC702	EYF52BC	FUSE HOLDER	
FC705	SJT388	FUSE CLIP	
FC706	SJT388	FUSE CLIP	

Ref No	Part No.	Part Name & Description	Remarks
FC707	SJT388	FUSE CLIP	
FC708	SJT388	FUSE CLIP	
		JACKS	
HP601	RJJ63TA01	JK, HP	
JK101	RJH4202	JK, ANT TERMINAL	
JK351	RJH2304N	JK, RCA TERMIANL	[MAV]
JK352	SJFK5-1	JK, VCR IN	
JK353	SJF3068-NJ	JK, RCA TERMINAL	[M]
JK401	SJF3068-7N	JK, RCA TERMINAL	
JK402	SJF3069N	JK, LINE IN.	
JK403	SJF3069N	JK, LINE IN	
JK404	SJF3069N	JK, LINE IN	
JK405	SJFD7	JK, FM MULTI OUT	
JK406	SJF3068-7N	JK, RCA TERMINAL	
JK601	RJH5601	JK, SP TERMINAL	
JK602	RJH5601	JK, SP TERMINAL	
JK603	RJR0054	JK, SPEAKER TERMINAL	
JK791	SJS9236	JK, AC INLET	⚠
		RELAYS	
RL601	RSY0013M-0	24V RELAY	
RL602	RSY0013M-0	24V RELAY	
RL603	RSY0013M-0	24V RELAY	
RL604	RSY0013M-0	24V RELAY	
RL751	RSY0019M-0	12V TV-5 RELAY	⚠
		EARTH TERMINALS	
E401	SNE1004-2	EARTH TERMINAL	
E601	SNE1004-2	EARTH TERMINAL	
		WIRE	
W353	REX0800	SHIELD WIRE	[MAV]

■ Resistors & Capacitors

Notes : • Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
• Capacitor values are in microfarad (μF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
• Resistors values are in ohms, unless specified otherwise, 1K=1,000(OHM), 1M=1,000K(OHM)
• [M] in Remarks column indicates parts that are supplied by **MESA**.
• [MAV] in Remarks column indicates parts that are supplied by **MAV**.

Ref No.	Part No.	Values & Remarks
	RESISTORS	
R103	ERDS2TJ101T	100 1/4W
R104	ERDS2TJ102T	1K 1/4W
R105	ERDS2TJ471T	470 1/4W
R106	ERDS2TJ224T	220K 1/4W
R107	ERDS2TJ471T	470 1/4W
R110	ERDS2TJ102T	1K 1/4W
R112	ERDS2TJ104T	100K 1/4W
R113	ERDS2TJ103T	10K 1/4W
R114	ERDS2TJ562T	5.6K 1/4W
R115	ERDS2TJ561T	560 1/4W
R116	ERDS2TJ102T	1K 1/4W
R117	ERDS2TJ473T	47K 1/4W
R118	ERDS2TJ562T	5.6K 1/4W
R119	ERDS2TJ183T	18K 1/4W
R120	ERDS2TJ473T	47K 1/4W
R121	ERDS2TJ332T	3.3K 1/4W
R122	ERDS2TJ272T	2.7K 1/4W
R124	ERDS2TJ271T	270 1/4W
R125	ERDS2TJ472T	4.7K 1/4W
R126	ERDS2TJ472T	4.7K 1/4W
R127	ERDS2TJ103T	10K 1/4W
R128	ERDS2TJ820T	82 1/4W
R129	ERDS2TJ473T	47K 1/4W
R130	ERDS2TJ102T	1K 1/4W
R131	ERDS2TJ102T	1K 1/4W
R132	ERDS2TJ103T	10K 1/4W
R133	ERDS2TJ102T	1K 1/4W
R134	ERDS2TJ102T	1K 1/4W
R135	ERDS2TJ102T	1K 1/4W
R136	ERDS2TJ102T	1K 1/4W
R137	ERDS2TJ102T	1K 1/4W
R139	ERDS2TJ272T	2.7K 1/4W
R140	ERDS2TJ272T	2.7K 1/4W
R141	ERDS2TJ102T	1K 1/4W
R142	ERDS2TJ102T	1K 1/4W
R143	ERDS2TJ222T	2.2K 1/4W
R144	ERDS2TJ222T	2.2K 1/4W
R145	ERDS2TJ102T	1K 1/4W(E,EB)
R145	ERDS2TJ561T	560 1/4W(EG)
R146	ERDS2TJ102T	1K 1/4W(E,EB)
R146	ERDS2TJ561T	560 1/4W(EG)
R147	ERDS2TJ474T	470K 1/4W
R148	ERDS2TJ474T	470K 1/4W
R149	ERDS2TJ680T	68 1/4W
R171	ERDS2TJ102T	1K 1/4W
R172	ERDS2TJ102T	1K 1/4W
R173	ERDS2TJ471T	470 1/4W
R175	ERDS2TJ102T	1K 1/4W
R176	ERDS2TJ391T	390 1/4W
R181	ERDS2TJ332T	3.3K 1/4W
R191	ERDS2TJ103T	10K 1/4W(E,EB)
R192	ERDS2TJ122T	1.2K 1/4W(E,EB)
R193	ERDS2TJ182T	1.8K 1/4W(E,EB)
R194	ERDS2TJ122T	1.2K 1/4W(E,EB)
R195	ERDS2TJ222T	2.2K 1/4W(E,EB)
R301	ERDS2TJ820T	82 1/4W
R302	ERDS2TJ820T	82 1/4W
R303	ERDS2TJ820T	82 1/4W
R304	ERDS2TJ820T	82 1/4W
R359	ERDS2TJ750T	75 1/4W
R362	ERDS2TJ750T	75 1/4W
R367	ERDS2TJ102T	1K 1/4W
R368	ERDS2TJ102T	1K 1/4W
R369	ERDS2TJ182T	1.8K 1/4W
R370	ERDS2TJ182T	1.8K 1/4W
R371	ERD2FCVG220T	22 1/4W
R372	ERD2FCVG220T	22 1/4W
R373	ERDS2TJ103T	10K 1/4W
R374	ERDS2TJ103T	10K 1/4W
R375	ERDS2TJ103T	10K 1/4W
R401	ERDS2TJ102T	1K 1/4W
R402	ERDS2TJ102T	1K 1/4W
R405	ERDS2TJ102T	1K 1/4W
R406	ERDS2TJ102T	1K 1/4W
R407	ERDS2TJ102T	1K 1/4W
R408	ERDS2TJ102T	1K 1/4W
R409	ERDS2TJ102T	1K 1/4W
R410	ERDS2TJ102T	1K 1/4W
R411	ERDS2TJ102T	1K 1/4W
R412	ERDS2TJ102T	1K 1/4W
R413	ERDS2TJ102T	1K 1/4W
R414	ERDS2TJ102T	1K 1/4W
R415	ERDS2TJ102T	1K 1/4W
R416	ERDS2TJ102T	1K 1/4W
R417	ERDS2TJ473T	47K 1/4W
R418	ERDS2TJ473T	47K 1/4W
R419	ERDS2TJ104T	100K 1/4W
R420	ERDS2TJ104T	100K 1/4W
R421	ERDS2TJ104T	100K 1/4W
R422	ERDS2TJ104T	100K 1/4W
R423	ERDS2TJ102T	1K 1/4W
R424	ERDS2TJ102T	1K 1/4W
R425	ERDS2TJ103T	10K 1/4W
R426	ERDS2TJ103T	10K 1/4W
R427	ERDS2TJ103T	10K 1/4W
R428	ERDS2TJ332T	3.3K 1/4W
R429	ERDS2TJ102T	1K 1/4W
R430	ERDS2TJ102T	1K 1/4W
R431	ERDS2TJ224T	220K 1/4W
R432	ERDS2TJ224T	220K 1/4W
R433	ERDS2TJ102T	1K 1/4W
R434	ERDS2TJ102T	1K 1/4W
R435	ERDS2TJ473T	47K 1/4W
R440	ERDS1FVJ820T	82 1/2W ⚠
R441	ERDS2TJ473T	47K 1/4W
R442	ERDS2TJ473T	47K 1/4W
R443	ERDS2TJ330T	33 1/4W
R451	ERDS2TJ224T	220K 1/4W
R452	ERDS2TJ224T	220K 1/4W
R453	ERDS2TJ391T	390 1/4W
R454	ERDS2TJ391T	390 1/4W
R455	ERDS2TJ563T	56K 1/4W
R456	ERDS2TJ563T	56K 1/4W
R457	ERDS2TJ271T	270 1/4W
R458	ERDS2TJ271T	270 1/4W
R459	ERDS2TJ680T	68 1/4W
R460	ERDS2TJ680T	68 1/4W
R461	ERDS2TJ184T	180K 1/4W
R462	ERDS2TJ184T	180K 1/4W
R463	ERDS2TJ123T	12K 1/4W
R464	ERDS2TJ123T	12K 1/4W
R465	ERDS2TJ563T	56K 1/4W
R466	ERDS2TJ563T	56K 1/4W
R467	ERDS2TJ102T	1K 1/4W
R468	ERDS2TJ102T	1K 1/4W
R469	ERDS2TJ102T	1K 1/4W
R470	ERDS2TJ102T	1K 1/4W
R501	ERDS2TJ222T	2.2K 1/4W
R502	ERDS2TJ222T	2.2K 1/4W
R503	ERDS2TJ103T	10K 1/4W
R504	ERDS2TJ103T	10K 1/4W
R505	ERDS2TJ103T	10K 1/4W
R506	ERDS2TJ103T	10K 1/4W
R507	ERDS2TJ153T	15K 1/4W
R508	ERDS1FVJ2R2T	2.2 1/2W ⚠
R511	ERDS2TJ471T	470 1/4W
R512	ERDS2TJ471T	470 1/4W
R513	ERDS2TJ474T	470K 1/4W
R514	ERDS2TJ474T	470K 1/4W
R515	ERDS2TJ474T	470K 1/4W
R516	ERDS2TJ474T	470K 1/4W
R517	ERDS2TJ332T	3.3K 1/4W
R518	ERDS2TJ332T	3.3K 1/4W
R519	ERDS2TJ182T	1.8K 1/4W
R520	ERDS2TJ182T	1.8K 1/4W
R521	ERDS2TJ223T	22K 1/4W
R522	ERDS2TJ223T	22K 1/4W
R523	ERDS2TJ392T	3.9K 1/4W
R524	ERDS2TJ392T	3.9K 1/4W
R525	ERDS2TJ222T	2.2K 1/4W
R526	ERDS2TJ222T	2.2K 1/4W
R527	ERDS2TJ122T	1.2K 1/4W
R528	ERDS2TJ122T	1.2K 1/4W
R529	ERDS2TJ273T	27K 1/4W
R530	ERDS2TJ273T	27K 1/4W
R531	ERDS2TJ102T	1K 1/4W
R532	ERDS2TJ102T	1K 1/4W
R533	ERDS2TJ473T	47K 1/4W
R534	ERDS2TJ473T	47K 1/4W
R535	ERDS2TJ102T	1K 1/4W
R536	ERDS2TJ102T	1K 1/4W
R537	ERDS2TJ103T	10K 1/4W

Ref No.	Part No.	Values & Remarks
R538	ERDS2TJ103T	10K 1/4W
R539	ERDS2TJ681T	680 1/4W
R540	ERDS2TJ681T	680 1/4W
R541	ERDS2TJ471T	470 1/4W
R542	ERDS2TJ471T	470 1/4W
R543	ERDS2TJ102T	1K 1/4W
R544	ERDS2TJ102T	1K 1/4W
R545	ERDS2TJ684T	680K 1/4W
R546	ERDS2TJ332T	3.3K 1/4W
R547	ERDS2TJ822T	8.2K 1/4W
R548	ERDS2TJ392T	3.9K 1/4W
R549	ERDS2TJ222T	2.2K 1/4W
R551	ERDS2TJ102T	1K 1/4W
R552	ERDS2TJ102T	1K 1/4W
R553	ERDS2TJ104T	100K 1/4W
R554	ERDS2TJ104T	100K 1/4W
R555	ERDS2TJ223T	22K 1/4W
R556	ERDS2TJ223T	22K 1/4W
R557	ERDS2TJ471T	470 1/4W
R558	ERDS2TJ471T	470 1/4W
R559	ERDS2TJ222T	2.2K 1/4W
R560	ERDS2TJ222T	2.2K 1/4W
R561	ERDS2TJ272T	2.7K 1/4W
R562	ERDS2TJ272T	2.7K 1/4W
R564	ERDS2TJ332T	3.3K 1/4W
R565	ERDS2TJ102T	1K 1/4W
R566	ERDS2TJ102T	1K 1/4W
R569	ERDS2TJ102T	1K 1/4W
R570	ERDS2TJ102T	1K 1/4W
R571	ERDS2TJ222T	2.2K 1/4W
R572	ERDS2TJ222T	2.2K 1/4W
R573	ERDS2TJ102T	1K 1/4W
R574	ERDS2TJ102T	1K 1/4W
R575	ERDS2TJ102T	1K 1/4W
R576	ERDS2TJ102T	1K 1/4W
R577	ERDS2TJ102T	1K 1/4W
R578	ERDS2TJ102T	1K 1/4W
R579	ERDS2TJ681T	680 1/4W
R580	ERDS2TJ102T	1K 1/4W
R581	ERDS2TJ102T	1K 1/4W
R582	ERDS2TJ102T	1K 1/4W
R583	ERDS2TJ102T	1K 1/4W
R584	ERDS2TJ102T	1K 1/4W
R585	ERDS2TJ102T	1K 1/4W
R586	ERDS2TJ102T	1K 1/4W
R587	ERDS2TJ102T	1K 1/4W
R588	ERDS2TJ102T	1K 1/4W
R589	ERDS2TJ182T	1.8K 1/4W
R590	ERDS2TJ473T	47K 1/4W
R591	ERDS2TJ222T	2.2K 1/4W
R592	ERDS2TJ222T	2.2K 1/4W
R601	ERDS2TJ102T	1K 1/4W
R602	ERDS2TJ102T	1K 1/4W
R603	ERDS2TJ563T	56K 1/4W
R604	ERDS2TJ563T	56K 1/4W
R605	ERDS2TJ182T	1.8K 1/4W
R606	ERDS2TJ182T	1.8K 1/4W
R607	ERDS2TJ563T	56K 1/4W
R608	ERDS2TJ563T	56K 1/4W
R609	ERDS2TJ470T	47 1/4W
R610	ERDS2TJ470T	47 1/4W
R611	ERDS1FVJ100T	10 1/2W ⚠
R612	ERDS1FVJ100T	10 1/2W ⚠
R613	ERDS2TJ102T	1K 1/4W
R614	ERDS2TJ102T	1K 1/4W
R615	ERDS2TJ184T	180K 1/4W
R616	ERDS2TJ154T	150K 1/4W
R617	ERDS2TJ473T	47K 1/4W
R618	ERDS2TJ473T	47K 1/4W
R619	ERDS2TJ223T	22K 1/4W
R620	ERD25FVJ220T	22 1/4W
R621	ERD25FVJ680T	68 1/4W
R622	ERD25FVJ680T	68 1/4W
R623	ERDS2TJ104T	100K 1/4W
R624	ERDS2TJ124T	120K 1/4W
R625	ERDS2TJ124T	120K 1/4W
R626	ERDS2TJ473T	47K 1/4W
R627	ERDS2TJ824T	820K 1/4W
R628	ERDS2TJ223T	22K 1/4W
R629	ERDS2TJ682T	6.8K 1/4W
R630	ERDS2TJ682T	6.8K 1/4W
R631	ERDS2TJ123T	12K 1/4W
R632	ERDS2TJ472T	4.7K 1/4W
R633	ERDS2TJ123T	12K 1/4W
R634	ERDS2TJ472T	4.7K 1/4W
R635	ERD2FCVG151T	150 1/4W[MAV]
R636	ERD2FCVG151T	150 1/4W[MAV]
R637	ERG1SJ101E	100 1W ⚠
R638	ERG1SJ101E	100 1W ⚠
R639	ERG1SJ101E	100 1W ⚠
R640	ERG1SJ101E	100 1W ⚠
R641	ERDS2TJ684T	680K 1/4W
R642	ERDS2TJ682T	6.8K 1/4W
R643	ERDS2TJ682T	6.8K 1/4W
R644	ERDS2TJ222T	2.2K 1/4W
R645	ERD2FCVG220T	22 1/4W
R646	ERD2FCVG220T	22 1/4W
R647	ERDS2TJ221T	220 1/4W
R648	ERDS2TJ221T	220 1/4W
R649	ERD25FVJ680T	68 1/4W
R650	ERD25FVJ680T	68 1/4W
R651	ERDS2TJ102T	1K 1/4W
R652	ERDS2TJ102T	1K 1/4W
R653	ERDS2TJ563T	56K 1/4W
R654	ERDS2TJ563T	56K 1/4W
R655	ERDS2TJ182T	1.8K 1/4W
R656	ERDS2TJ182T	1.8K 1/4W
R657	ERDS2TJ563T	56K 1/4W
R658	ERDS2TJ563T	56K 1/4W
R659	ERDS2TJ470T	47 1/4W
R660	ERDS2TJ470T	47 1/4W
R661	ERDS1FVJ100T	10 1/2W ⚠
R662	ERDS1FVJ100T	10 1/2W ⚠
R663	ERDS2TJ102T	1K 1/4W
R664	ERDS2TJ102T	1K 1/4W
R665	ERDS2TJ184T	180K 1/4W
R666	ERDS2TJ154T	150K 1/4W
R667	ERDS2TJ102T	1K 1/4W
R668	ERDS2TJ563T	56K 1/4W
R669	ERDS2TJ182T	1.8K 1/4W
R670	ERDS2TJ563T	56K 1/4W
R671	ERD25FVJ680T	68 1/4W
R672	ERD25FVJ680T	68 1/4W
R673	ERDS2TJ470T	47 1/4W
R674	ERDS1FVJ100T	10 1/2W ⚠
R675	ERDS2TJ102T	1K 1/4W
R676	ERD2FCVG151T	150 1/4W[MAV]
R677	ERDS2TJ274T	270K 1/4W
R678	ERDS2TJ184T	180K 1/4W
R679	ERD2FCVG151T	150 1/4W[MAV]
R680	ERDS2TJ221T	220 1/4W
R681	ERDS2TJ270T	27 1/4W
R682	ERDS2TJ270T	27 1/4W
R683	ERDS2TJ270T	27 1/4W
R684	ERDS2TJ270T	27 1/4W
R685	ERDS2TJ270T	27 1/4W
R686	ERDS2TJ270T	27 1/4W
R687	ERDS2TJ270T	27 1/4W
R688	ERDS2TJ270T	27 1/4W
R689	ERDS2TJ270T	27 1/4W
R690	ERDS2TJ270T	27 1/4W
R691	ERDS2TJ270T	27 1/4W
R692	ERDS2TJ270T	27 1/4W
R693	ERDS2TJ270T	27 1/4W
R694	ERDS2TJ270T	27 1/4W
R695	ERDS2TJ102T	1K 1/4W
R696	ERDS2TJ102T	1K 1/4W
R697	ERDS2TJ221T	220 1/4W
R698	ERDS2TJ221T	220 1/4W
R699	ERDS2TJ332T	3.3K 1/4W
R703	ERDS1FVJ3R9T	3.9 1/2W ⚠
R704	ERDS1FVJ3R9T	3.9 1/2W ⚠
R705	ERDS2TJ472T	4.7K 1/4W
R706	ERDS2TJ102T	1K 1/4W
R709	ERD25FVJ221T	220 1/4W
R712	ERDS2TJ472T	4.7K 1/4W
R713	ERDS2TJ1R5T	1.5 1/4W
R714	ERDS2TJ1R5T	1.5 1/4W
R715	ERDS2TJ752T	7.5K 1/4W
R716	ERDS2TJ682T	6.8K 1/4W
R718	ERDS2TJ182T	1.8K 1/4W
R721	ERDS1FVJ100T	10 1/2W ⚠
R722	ERDS1FVJ391T	390 1/2W ⚠
R723	ERDS2TJ472T	4.7K 1/4W
R724	ERDS1FVJ100T	10 1/2W ⚠
R725	ERDS2TJ681T	680 1/4W
R727	ERDS1FVJ2R2T	2.2 1/2W ⚠
R730	ERDS1FVJ391T	390 1/2W ⚠
R731	ERDS1FVJ391T	390 1/2W ⚠
R732	ERDS1FVJ150T	15 1/2W ⚠
R741	ERDS1FVJ6R8T	6.8 1/2W ⚠
R742	ERDS1FVJ3R3T	3.3 1/2W ⚠
R743	ERDS1FVJ3R3T	3.3 1/2W ⚠
R744	ERDS1FVJ3R3T	3.3 1/2W ⚠
R745	ERDS1FVJ3R3T	3.3 1/2W ⚠
R754	ERDS2TJ102T	1K 1/4W
R772	ERDS2TJ104T	100K 1/4W
R773	ERDS2TJ103T	10K 1/4W
R774	ERDS2TJ223T	22K 1/4W
R775	ERDS2TJ472T	4.7K 1/4W
R777	ERDS2TJ150T	15 1/4W
R778	ERDS2TJ222T	2.2K 1/4W
R779	ERDS2TJ103T	10K 1/4W
R780	ERDS2TJ473T	47K 1/4W
R781	ERDS2TJ473T	47K 1/4W
R782	ERDS2TJ153T	15K 1/4W
R783	ERDS2TJ103T	10K 1/4W
R784	ERDS2TJ335T	3.3M 1/4W
R791	ERDS2TJ223T	22K 1/4W
R792	ERDS2TJ223T	22K 1/4W
R793	ERDS2TJ223T	22K 1/4W
R794	ERDS2TJ223T	22K 1/4W

Ref No.	Part No.	Values & Remarks
R795	ERDS2TJ223T	22K 1/4W
R796	ERDS2TJ223T	22K 1/4W
R797	ERDS2TJ682T	6.8K 1/4W
R798	ERDS2TJ223T	22K 1/4W
R901	ERDS2TJ102T	1K 1/4W
R906	ERDS2TJ104T	100K 1/4W
R907	ERDS2TJ104T	100K 1/4W
R908	ERDS2TJ104T	100K 1/4W
R909	ERDS2TJ104T	100K 1/4W
R910	ERDS2TJ102T	1K 1/4W
R911	ERDS2TJ104T	100K 1/4W
R912	ERDS2TJ103T	10K 1/4W
R913	ERDS2TJ103T	10K 1/4W
R914	ERDS2TJ274T	270K 1/4W
R917	ERDS2TJ103T	10K 1/4W
R920	ERDS2TJ271T	270 1/4W
R921	ERDS2TJ121T	120 1/4W
R922	ERDS2TJ472T	4.7K 1/4W
R923	ERDS2TJ104T	100K 1/4W
R924	ERDS2TJ333T	33K 1/4W
R927	ERDS2TJ181T	180 1/4W
R928	ERDS2TJ151T	150 1/4W
R929	ERDS2TJ101T	100 1/4W
R930	ERDS2TJ101T	100 1/4W
R936	ERDS2TJ102T	1K 1/4W
R937	ERDS2TJ102T	1K 1/4W
R941	ERDS2TJ472T	4.7K 1/4W
R943	ERDS2TJ102T	1K 1/4W
R946	ERDS2TJ103T	10K 1/4W
R947	ERDS2TJ103T	10K 1/4W
R948	ERDS2TJ103T	10K 1/4W
R949	ERDS2TJ103T	10K 1/4W
R950	ERDS2TJ102T	1K 1/4W
R951	ERDS2TJ122T	1.2K 1/4W
R952	ERDS2TJ152T	1.5K 1/4W
R953	ERDS2TJ182T	1.8K 1/4W
R954	ERDS2TJ222T	2.2K 1/4W
R955	ERDS2TJ332T	3.3K 1/4W
R956	ERDS2TJ472T	4.7K 1/4W
R957	ERDS2TJ682T	6.8K 1/4W
R958	ERDS2TJ123T	12K 1/4W
R960	ERDS2TJ102T	1K 1/4W
R961	ERDS2TJ122T	1.2K 1/4W
R962	ERDS2TJ152T	1.5K 1/4W
R963	ERDS2TJ182T	1.8K 1/4W
R964	ERDS2TJ222T	2.2K 1/4W
R970	ERDS2TJ102T	1K 1/4W
R971	ERDS2TJ122T	1.2K 1/4W

Ref No.	Part No.	Values & Remarks
R972	ERDS2TJ152T	1.5K 1/4W
R973	ERDS2TJ182T	1.8K 1/4W
R974	ERDS2TJ222T	2.2K 1/4W
R975	ERDS2TJ332T	3.3K 1/4W
R976	ERDS2TJ472T	4.7K 1/4W
R980	ERDS2TJ102T	1K 1/4W
R981	ERDS2TJ122T	1.2K 1/4W
R982	ERDS2TJ152T	1.5K 1/4W
R983	ERDS2TJ182T	1.8K 1/4W
R984	ERDS2TJ222T	2.2K 1/4W
R985	ERDS2TJ822T	8.2K 1/4W
R990	ERDS2TJ153T	15K 1/4W
R1001	ERDS2TJ102T	1K 1/4W
R1002	ERDS2TJ102T	1K 1/4W
R1003	ERDS2TJ102T	1K 1/4W
R1004	ERDS2TJ102T	1K 1/4W
R1005	ERDS2TJ203T	20K 1/4W
R1007	ERDS2TJ473T	47K 1/4W
R1008	ERDS2TJ473T	47K 1/4W
R1009	ERDS2TJ332T	3.3K 1/4W
R1010	ERDS2TJ332T	3.3K 1/4W
R1011	ERDS2TJ332T	3.3K 1/4W
R1012	ERDS2TJ102T	1K 1/4W
R1013	ERDS2TJ103T	10K 1/4W
R1014	ERDS2TJ104T	100K 1/4W
R1051	ERDS2TJ393T	39K 1/4W
R1052	ERDS2TJ105T	1M 1/4W
R1053	ERDS2TJ102T	1K 1/4W
R1055	ERDS2TJ224T	220K 1/4W
R1056	ERDS2TJ153T	15K 1/4W
R1061	ERDS2TJ222T	2.2K 1/4W
R1062	ERDS2TJ273T	27K 1/4W
R1063	ERDS2TJ332T	3.3K 1/4W
R1081	ERDS2TJ104T	100K 1/4W
R1082	ERDS2TJ474T	470K 1/4W
R1151	ERDS2TJ473T	47K 1/4W
R1152	ERDS2TJ473T	47K 1/4W
R1153	ERDS2TJ223T	22K 1/4W
R1154	ERDS2TJ473T	47K 1/4W
R1155	ERDS2TJ393T	39K 1/4W
R1156	ERDS2TJ393T	39K 1/4W
R1157	ERDS2TJ222T	2.2K 1/4W
R1158	ERDS2TJ104T	100K 1/4W
R1159	ERDS2TJ103T	10K 1/4W
R1160	ERDS2TJ104T	100K 1/4W
R1161	ERDS2TJ104T	100K 1/4W
R1162	ERDS2TJ102T	1K 1/4W
R1163	ERDS2TJ333T	33K 1/4W

Ref No.	Part No.	Values & Remarks
R1164	ERDS2TJ393T	39K 1/4W
	CAPACITORS	
C101	ECBT1C103NS5	0.01 16V
C103	ECBT1C103NS5	0.01 16V
C104	ECBT1H102KB5	1000P 50V
C105	ECBT1H470J5	47P 50V
C106	ECBT1C103NS5	0.01 16V
C107	ECBT1H473ZF5	0.047 50V
C108	ECBT1H100JC5	10P 50V(E,EB)
C108	ECBT1H8R2KC5	8.2P 50V(EG)
C109	ECBT1C103NS5	0.01 16V
C110	ECBT1C103NS5	0.01 16V
C111	ECEA1EKA4R7B	4.7 25V
C112	ECBT1C103NS5	0.01 16V
C113	ECBT1H102KB5	1000P 50V
C114	ECEA1HKA3R3B	3.3 50V
C115	ECEA1EKA4R7B	4.7 25V
C116	ECBT1C822MS5	8200P 16V
C117	ECQB1H471JF3	470P 50V
C118	ECQB1H103JZ	0.01 50V
C119	ECQB1H103JZ	0.01 50V
C120	ECEA1HKA010B	1 50V
C121	ECEA1HKA010B	1 50V
C122	ECEA1HKA2R2B	2.2 50V
C123	ECEA1HKA010B	1 50V
C124	ECBT1H102KB5	1000P 50V
C125	ECBT1H150JC5	15P 50V
C126	ECBT1H104ZF5	0.1 50V
C127	ECEA1CKA220B	22 16V
C128	ECBT1C103NS5	0.01 16V
C129	ECEA0JKA101B	100 6.3V
C130	ECEA0JKA101B	100 6.3V
C131	ECBT1C103NS5	0.01 16V
C132	ECBT1H102KB5	1000P 50V
C133	ECBT1H150JC5	15P 50V
C134	ECBT1H180JC5	18P 50V
C135	ECBT1C103MS5	0.01 16V
C136	ECBT1C103MS5	0.01 16V
C137	ECBT1H561KB5	560P 50V
C138	ECBT1H561KB5	560P 50V
C139	ECQB1H682JF3	6800P 50V
C140	ECQB1H682JF3	6800P 50V
C141	ECEA1HKA010B	1 50V
C142	ECEA1HKA010B	1 50V
C143	ECEA1HKA010B	1 50V
C144	ECEA1HKA010B	1 50V

Ref No.	Part No.	Values & Remarks
C145	ECBT1H220JC5	22P 50V
C146	ECBT1H331KB5	330P 50V
C147	ECBT1H102KB5	1000P 50V
C148	ECBT1C103NS5	0.01 16V
C149	ECBT1C103NS5	0.01 16V
C150	ECBT1H104ZF5	0.1 50V
C172	ECBT1H331KB5	330P 50V
C173	ECEA1CKA220B	22 16V
C174	ECEA1CKA101B	100 16V
C175	ECBT1C103NS5	0.01 16V
C176	ECBT1C103NS5	0.01 16V
C181	ECBT1H471KB5	470P 50V
C196	ECBT1H102KB5	1000P 50V
C329	ECBT1H470J5	47P 50V
C330	ECBT1H470J5	47P 50V
C351	ECEA0JKA101B	100 6.3V
C352	ECEA0JKA101B	100 6.3V
C354	ECBT1H104ZF5	0.1 50V
C355	ECBT1H104ZF5	0.1 50V
C357	ECBT1E103ZF5	0.01 25V
C358	ECBT1E103ZF5	0.01 25V
C373	ECEA1CKA470B	47 16V
C374	ECEA1CKA470B	47 16V
C375	ECEA1CKA470B	47 16V
C401	ECEA1VKA4R7B	4.7 10V
C402	ECEA1VKA4R7B	4.7 10V
C403	ECBT1E103ZF5	0.01 25V
C404	ECBT1E103ZF5	0.01 25V
C405	ECBT1H101KB5	100P 50V
C406	ECBT1H101KB5	100P 50V
C409	ECEA1EU220B	22 25V
C410	ECEA1EU220B	22 25V
C411	ECBT1H101KB5	100P 50V
C412	ECBT1H101KB5	100P 50V
C413	ECEA1CU100B	10 16V
C414	ECEA1CU100B	10 16V
C415	ECBT1E103ZF5	0.01 25V
C416	ECBT1E103ZF5	0.01 25V
C417	ECBT1H101KB5	100P 50V
C418	ECBT1H101KB5	100P 50V
C419	ECBT1H331KB5	330P 50V
C420	ECBT1H331KB5	330P 50V
C421	ECBT1H331KB5	330P 50V
C422	ECBT1H331KB5	330P 50V
C423	ECBT1H101KB5	100P 50V
C424	ECBT1H101KB5	100P 50V
C425	ECBT1H101KB5	100P 50V
C426	ECBT1H101KB5	100P 50V

Ref No.	Part No.	Values & Remarks
C427	ECBT1H221KB5	220P 50V
C428	ECBT1H221KB5	220P 50V
C429	ECBT1H101KB5	100P 50V
C430	ECBT1H101KB5	100P 50V
C431	ECEA1CU100B	10 16V
C432	ECEA1CU100B	10 16V
C433	ECBT1H101KB5	100P 50V
C434	ECBT1H101KB5	100P 50V
C440	ECBT1E103ZF5	0.01 25V
C451	ECEA1HU4R7B	4.7 50V
C452	ECEA1HU4R7B	4.7 50V
C453	ECBT1H100JC5	10P 50V
C454	ECBT1H100JC5	10P 50V
C455	ECBT1H102KB5	1000P 50V
C456	ECBT1H102KB5	1000P 50V
C457	ECEA1AKA330B	33 10V
C458	ECEA1AKA330B	33 10V
C459	ECFR1E223KR	0.022 25V
C460	ECFR1E223KR	0.022 25V
C461	ECFR1E682KR	6800P 25V
C462	ECFR1E682KR	6800P 25V
C463	ECEA1HU4R7B	4.7 50V
C464	ECEA1HU4R7B	4.7 50V
C465	ECBT1E103ZF5	0.01 25V
C466	ECBT1E103ZF5	0.01 25V
C469	ECBT1H181KB5	180P 50V
C470	ECBT1H181KB5	180P 50V
C501	ECFR1E333KR	0.033 25V
C502	ECFR1E333KR	0.033 25V
C503	ECEA0JKA101B	100 6.3V
C504	ECEA0JKA101B	100 6.3V
C505	ECFR1C104MR	0.1 16V
C506	ECFR1C104MR	0.1 16V
C511	ECEA1HKA3R3B	3.3 50V
C512	ECEA1HKA3R3B	3.3 50V
C513	ECBT1H150J5	15P 50V
C514	ECBT1H150J5	15P 50V
C515	ECBT1H221KB5	220P 50V
C516	ECBT1H221KB5	220P 50V
C517	ECBT1H330J5	33P 50V
C518	ECBT1H330J5	33P 50V
C519	ECEA1VKA4R7B	4.7 10V
C520	ECEA1VKA4R7B	4.7 10V
C521	ECEA1VKA4R7B	4.7 10V
C522	ECEA1VKA4R7B	4.7 10V
C523	ECFR1E123KR	0.012 25V
C524	ECFR1E123KR	0.012 25V
C525	ECQV1H683JZ3	0.068 50V

Ref No.	Part No.	Values & Remarks
C526	ECQV1H683JZ3	0.068 50V
C527	ECBT1C562KR5	5600P 16V
C528	ECBT1C562KR5	5600P 16V
C529	ECQB1H273JF3	0.027 50V
C530	ECQB1H273JF3	0.027 50V
C531	ECBT1E103ZF5	0.01 25V
C532	ECBT1E103ZF5	0.01 25V
C533	ECEA1CKA220B	22 16V
C534	ECEA1CKA220B	22 16V
C536	ECBT1E103ZF5	0.01 25V
C537	ECEA1CU100B	10 16V
C538	ECEA1CU100B	10 16V
C539	ECEA1CU100B	10 16V
C541	ECEA1HU470B	47 50V
C542	ECEA1HU470B	47 50V
C551	ECEA1HKA3R3B	3.3 50V
C552	ECEA1HKA3R3B	3.3 50V
C553	ECBT1H101KB5	100P 50V
C554	ECBT1H101KB5	100P 50V
C555	ECBT1H221KB5	220P 50V
C556	ECBT1H221KB5	220P 50V
C557	ECBT1E103ZF5	0.01 25V
C558	ECBT1E103ZF5	0.01 25V
C559	ECEA1CKA100B	10 16V
C560	ECEA1CKA100B	10 16V
C563	ECBT1H104ZF5	0.1 50V
C581	ECEA0JKA101B	100 6.3V
C582	ECEA0JKA101B	100 6.3V
C583	ECEA0JKA101B	100 6.3V
C584	ECEA0JKA101B	100 6.3V
C601	ECEA1HN3R3SB	3.3 50V
C602	ECEA1HN3R3SB	3.3 50V
C603	ECBT1H681KB5	680P 50V
C604	ECBT1H681KB5	680P 50V
C605	ECEA1JU330	33 63V
C606	ECEA1JU330	33 63V
C607	ECCR1H100K5	10P 50V
C608	ECCR1H100K5	10P 50V
C609	ECBT1H221KB5	220P 50V
C610	ECBT1H221KB5	220P 50V
C611	ECQV1H473JZ3	0.047 50V
C612	ECQV1H473JZ3	0.047 50V
C613	ECBT1H681KB5	680P 50V
C614	ECBT1H681KB5	680P 50V
C615	ECEA1JU330	33 63V
C616	ECEA2AU100B	10 100V
C617	ECEA1JU220B	22 63V
C618	ECEA2AN2R2SB	2.2 100V

Ref No.	Part No.	Values & Remarks
C619	ECBT1H102KB5	1000P 50V
C621	ECEA2AU100B	10 100V
C622	ECEA2AU100B	10 100V
C631	ECKR1H223ZF5	0.022 50V
C632	ECKR1H223ZF5	0.022 50V
C633	ECKR1H223ZF5	0.022 50V
C634	ECKR1H223ZF5	0.022 50V
C635	ECKR1H103ZF5	0.01 50V
C636	ECKR1H103ZF5	0.01 50V
C637	ECKR1H223ZF5	0.022 50V
C638	ECKR1H223ZF5	0.022 50V
C639	ECKR1H122KB5	1200P 50V
C640	ECKR1H122KB5	1200P 50V
C641	ECKR1H223ZF5	0.022 50V
C649	ECEA2AU100B	10 100V
C650	ECEA2AU100B	10 100V
C651	ECEA1HN3R3SB	3.3 50V
C652	ECEA1HN3R3SB	3.3 50V
C653	ECBT1H681KB5	680P 50V
C654	ECBT1H681KB5	680P 50V
C655	ECEA1JU330	33 63V
C656	ECEA1JU330	33 63V
C657	ECCR1H100K5	10P 50V
C658	ECCR1H100K5	10P 50V
C659	ECBT1H221KB5	220P 50V
C660	ECBT1H221KB5	220P 50V
C661	ECQV1H473JZ3	0.047 50V
C662	ECQV1H473JZ3	0.047 50V
C663	ECBT1H681KB5	680P 50V
C664	ECBT1H681KB5	680P 50V
C667	ECEA1HN3R3SB	3.3 50V
C668	ECBT1H681KB5	680P 50V
C669	ECEA1JU330	33 63V
C670	ECCR1H100K5	10P 50V
C671	ECEA2AU100B	10 100V
C672	ECEA2AU100B	10 100V
C674	ECQV1H473JZ3	0.047 50V
C675	ECBT1H681KB5	680P 50V
C680	ECBT1H221KB5	220P 50V
C681	ECEA1HN100SB	10 50V
C682	ECEA1HN100SB	10 50V
C683	ECBT1C332KR5	3300P 16V
C684	ECBT1C332KR5	3300P 16V
C685	ECBT1E103ZF5	0.01 25V
C691	ECKR1H102KB5	1000P 50V
C692	ECKR1H102KB5	1000P 50V
C693	ECKR1H102KB5	1000P 50V
C694	ECKR1H102KB5	1000P 50V

Ref No.	Part No.	Values & Remarks
C701	ECBT1E103ZF5	0.01 25V
C702	ECQE2104KF3	0.1 250V
C703	ECES75V752UX	7500 75V⚠
C704	ECES75V752UX	7500 75V⚠
C705	ECEA1HM332EV	3300⚠ 50V[M]
C706	ECEA1HM332EV	3300⚠ 50V[M]
C707	ECA1VM101B	100 35V
C708	ECKR1H103ZF5	0.01 50V
C709	ECEA1CU330B	33 16V
C710	ECBT1E103ZF5	0.01 25V
C711	ECKR1H103ZF5	0.01 50V
C712	ECEA1HU100B	10 50V
C713	ECKR1H103ZF5	0.01 50V
C714	ECEA1EU470B	47 25V
C715	ECEA1CU101B	100 16V
C721	ECQE2104KF3	0.1 250V
C722	ECQE2104KF3	0.1 250V
C751	ECKWRS102MBC	0.001⚠ 400V[MAV
C752	ECKR1H103ZF5	0.01 50V
C753	ECA1EM102B	1000 25V⚠
C754	ECBT1E103ZF5	0.01 25V
C755	ECEA1CKA470B	47 16V
C758	ECEA1AU101B	100 10V
C771	ECEA1HKA2R2B	2.2 50V
C772	ECEA1CU100B	10 16V
C773	ECBT1E223ZF5	0.022 25V
C774	ECEA0JU221B	220 6.3V
C901	ECEA0JU102B	1000 6.3V
C902	ECBT1H104ZF5	0.1 50V
C903	ECBT1E103ZF5	0.01 25V
C904	ECEA0JU102B	1000 6.3V
C906	ECEA0JKA101B	100 6.3V
C908	ECBT1E103ZF5	0.01 25V
C909	ECEA1VKA220B	22 10V
C910	ECEA1VKA220B	22 10V
C911	ECEA1VKA220B	22 10V
C912	ECEA1VKA220B	22 10V
C913	ECEA1VKA100B	10 10V
C914	ECEA1VKA100B	10 10V
C916	ECEA1HKA010B	1 50V
C917	ECEA1HKAR47B	0.47 50V
C918	ECEA0JKA221B	220 6.3V
C919	ECBT1E103ZF5	0.01 25V
C920	ECEA1HKA010B	1 50V
C921	ECBT1H331KB5	330P 50V
C922	ECBT1H331KB5	330P 50V
C923	ECBT1H331KB5	330P 50V
C924	ECBT1H331KB5	330P 50V

Ref No.	Part No.	Values & Remarks
C925	ECBT1H331KB5	330P 50V
C926	ECBT1H331KB5	330P 50V
C927	ECBT1H331KB5	330P 50V
C928	ECBT1H331KB5	330P 50V
C929	ECBT1H331KB5	330P 50V
C930	ECBT1H331KB5	330P 50V
C931	ECBT1H101KB5	100P 50V
C932	ECBT1E103ZF5	0.01 25V
C934	ECBT1H101KB5	100P 50V
C941	ECBT1E103ZF5	0.01 25V
C948	ECBT1E103ZF5	0.01 25V
C951	ECBT1H101KB5	100P 50V
C952	ECBT1H330J5	33P 50V
C953	ECBT1H101KB5	100P 50V
C955	ECBT1H101KB5	100P 50V
C956	ECBT1H101KB5	100P 50V
C1001	ECEA1HKA010B	1 50V
C1002	ECEA1HKA010B	1 50V
C1003	ECEA1HKA3R3B	3.3 50V
C1004	ECEA1HKA3R3B	3.3 50V
C1005	ECEA1HKA010B	1 50V
C1007	ECFR1E223KR	0.022 25V
C1008	ECFR1E473KR	0.047 25V
C1009	ECEA0JU221B	220 6.3V
C1010	ECEA1CKA100B	10 16V
C1011	ECEA1CKA100B	10 16V
C1012	ECEA1CKA100B	10 16V
C1013	ECEA1CKA100B	10 16V
C1014	ECEA0JU221B	220 6.3V
C1015	ECQV1H104JZ3	0.1 50V
C1016	ECQV1H104JZ3	0.1 50V
C1017	ECEA1HKAR47B	0.47 50V
C1018	ECEA1HKA4R7B	4.7 50V
C1019	ECEA1HKAR47B	0.47 50V
C1020	ECEA1HKA4R7B	4.7 50V
C1021	ECEA1HKAR15B	0.15 50V
C1022	ECEA1HKA3R3B	3.3 50V
C1023	ECQV1H154JZ3	0.15 50V
C1024	ECQV1H154JZ3	0.15 50V
C1025	ECEA1HKA3R3B	3.3 50V
C1026	ECEA1HKAR15B	0.15 50V
C1027	ECEA1HKA4R7B	4.7 50V
C1028	ECEA1HKAR47B	0.47 50V
C1029	ECEA1HKA4R7B	4.7 50V
C1030	ECEA1HKAR47B	0.47 50V
C1031	ECQV1H104JZ3	0.1 50V
C1032	ECQV1H104JZ3	0.1 50V
C1033	ECEA0JKA470B	47 6.3V
C1034	ECQV1H474JZ3	0.47 50V
C1035	ECBT1H681KB5	680P 50V
C1036	ECBT1H101KB5	100P 50V
C1037	ECBT1H101KB5	100P 50V
C1038	ECBT1H101KB5	100P 50V
C1039	ECEA1CU101B	100 16V
C1040	ECEA1CKA100B	10 16V
C1041	ECBT1E103ZF5	0.01 25V
C1043	ECEA1CKA100B	10 16V
C1044	ECEA1CKA100B	10 16V
C1051	ECEA1HKA2R2B	2.2 50V
C1052	ECEA1HKA010B	1 50V
C1053	ECEA1HKA3R3B	3.3 50V
C1054	ECEA0JU221B	220 6.3V
C1055	ECEA1HKA010B	1 50V
C1056	ECFR1E563KR	0.056 25V
C1057	ECFR1E152KR	1500P 25V
C1058	ECFR1E563KR	0.056 25V
C1059	ECEA1CKA101B	100 16V
C1060	ECBT1E223ZF5	0.022 25V
C1062	ECBT1E223ZF5	0.022 25V
C1063	ECEA1CKA101B	100 16V
C1064	ECEA1HKA010B	1 50V
C1065	ECBT1H681KB5	680P 50V
C1067	ECBT1C152KR5	1500P 16V
C1068	ECBT1C152KR5	1500P 16V
C1081	ECEA1HKA010B	1 50V
C1082	ECBT1E223ZF5	0.022 25V
C1151	ECEA1CKA100B	10 16V
C1152	ECFR1C393KR	0.039 16V
C1153	ECFR1C393KR	0.039 16V
C1154	ECEA1CKA220B	22 16V
C1155	ECBT1E103ZF5	0.01 25V
C1156	ECBT1E103ZF5	0.01 25V
C1157	ECBT1E103ZF5	0.01 25V
C1158	ECBT1H101KB5	100P 50V
C1159	ECEA1HKA3R3B	3.3 50V
C1160	ECEA1HKA3R3B	3.3 50V
C1161	ECBT1H101KB5	100P 50V

Ref No.	Part No.	Values & Remarks

Ref No.	Part No.	Values & Remarks

■ Packing Materials & Accessories

Notes: * Important safety notice :
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
* The parenthesized in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indication can be used for all areas.
* [M] in Remarks column indicates parts that are supplied by **MESA**.
* [MAV] in Remarks column indicates parts that are supplied by **MAV**.
* Remote Control Unit : Supply period for three years from terminal of production.
* The "(SF)" mark denotes the standard part.
* [VRD] in Part Name & Description column indicates parts that are supplied by **Video Recorder Division**.

Ref No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	SPSD152	ACCESSORY CASE	
P2	RPG3061	PACKING CASE	[MAV]
P3	RPN0966	POLY FOAM	[MAV]
P4	RPFX0005	MIRAMAT SHEET	[M]

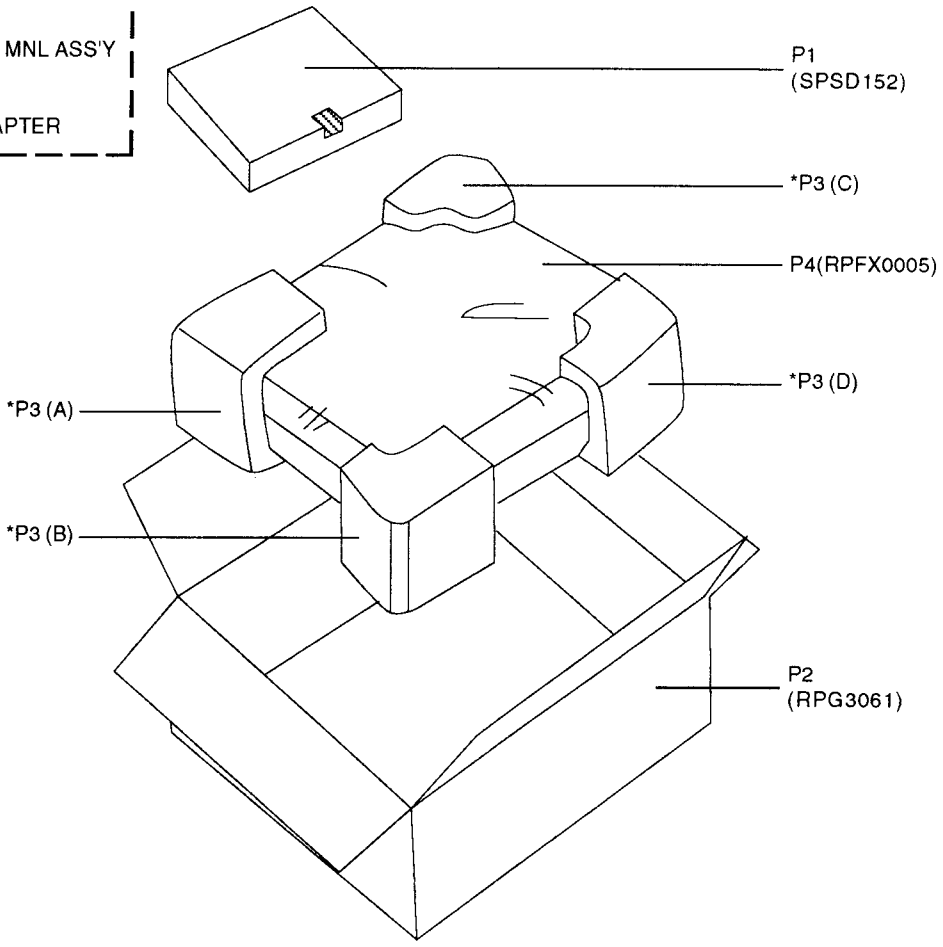
Ref No.	Part No.	Part Name & Description	Remarks
		ACCESSORIES	
A1	RAK-SA612WHP	REMOTE CONTROL	[MAV]
A1-1	RKK0020	BATTERY COVER(R/C)	
A2	RSA0010	AM LOOP ANT	
A3	RJA0019-2K	AC CORD (SF)	(E,EG) ⚠

Ref No.	Part No.	Part Name & Description	Remarks
A3	VJA0733	AC CORD [VRD](SF)	(EB) ⚠
A4	RSA0007	FM ANTENNA	
A5	RFKSAEX700EB	INST. MANUAL ASS'Y	[MAV](EB)
A5	RFKSAEX700EG	INST. MANUAL ASS'Y	[MAV](EG)
A5	RFKSAEX700EK	INST. MANUAL ASS'Y	[MAV](E)
A6	SJP9009	ANT ADAPTER	(EB) ⚠

■ Packaging

P1 (SPSD152) : ACCESSORY BOX

A1 (RAK-SA612WHP) : REMOTE CONTROL
A2 (RSA0010) : AM LOOP ANTENNA
A3 (RJA0019-2K ... E/EG) : AC CORD
(VJA0733 ... EB)
A4 (RSA0007) : FM ANTENNA
A5 (RFKSAEX700EB ... EB) : INSTRUCTION MNL ASS'Y
(RFKSAEX700EG ... EG)
(RFKSAEX700EK ... E)
A6 (SJP9009 ... EB) : ANTENNA ADAPTER



P3 (RPN0966)
- *P3 (A)
- *P3 (B)
- *P3 (C)
- *P3 (D)

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